

Your Reliable Power Partner

LED Power Supply LED Driver





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AP series

12~35W

■ PFC Function ■ Metal Case ■ IP65 & IP67 Low Cost with Rectangular Plastic Case LP series 16~18 **HLG** series 40~320W 2~3 18~100W Economical with Slim Plastic Case High Efficiency with PFC Function ■ IP67 Metal Case3 in 1 Dimming Function ■ IP65 & IP67 ■ 5 Years Warranty **ELN** series 30~60W Dimming Option
 Plastic Case HVG(C) series 96~150W 19 ■ PFC Function ■ Metal Case ■ IP65~67 PCD series 16~60W Wide Input Range: PFC Function
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PFC Function
 PCB Type

13 **HLP** series 40~80W

- PFC Function PCB Type
- 3 in 1 Dimming Function

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■ PFC Function ■ Metal Case ■ IP66

60~150W 15 **CLG** series



Comparison Chart 25





APC-12/16

Features

- · Universal AC input / Full range
- · Fully isolated plastic case
- Protections: Short circuit / Overload(APV only) / Over voltage
- · Constant voltage design (C.V. mode) for APV series
- Constant current design (C.C. mode) for APC series
- IP30 design
- Withstand 300VAC surge input for 5 seconds (APV/C-25/35)
- · Class 2 power unit / Pass LPS
- · Isolation class II, no FG
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- · 2 years warranty



APV-12/16



nge	90~264VAC; 127~370VDC			
nax.)	Cold start, 70A at 230VAC			
Range	>105% rated output current			
Type	Hiccup up mode, auto-recovery			
tion	110%~145% rated output voltage			
	I/P-O/P: 3.75kVAC	I/P-O/P: 3kVAC		
e	-30~+70°C (refer to output derating curve)			
	$10\sim500$ Hz, 2G 10 minutes $/1$ cycle, period for 60 minutes each along X, Y, Z axes			
	UL8750 approved; Design refer to TUV EN60950-1	Design refer to TUV EN60950-1, UL8750		
	EN55015, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	EN55022 class B, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		
Input	UL rated, 18AWGx2C (15cm)	UL rated, 18AWGx2C (15cm)		
Output	UL rated, 20AWGx2C (15cm)	UL rated, 18AWGx2C (15cm)		
(mm)	77x 40x 29	84x 57x 29.5		
	Type tion e	nax.) Cold start, 70A at 230VAC Range >105% rated output current Type Hiccup up mode, auto-recovery tion 110%~145% rated output voltage I/P-O/P: 3.75kVAC re -30~+70°C (refer to output derating curve) 10~500Hz, 2G 10 minutes /1 cycle, period for 60 n UL8750 approved; Design refer to TUV EN60950-1 EN55015, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547 Input UL rated, 18AWGx2C (15cm) Output UL rated, 20AWGx2C (15cm)		

APV-12 Series (C.V. mode)

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AP	C-12	Series	(C.C. mode

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Model No.	Output	Tol.	R&N	Effi.
APV-12-5	5V, 0~2.0A	±5%	100mV	76%
APV-12-12	12V, 0~1.0A	±5%	120mV	82%
APV-12-15	15V, 0~0.8A	±5%	120mV	82%
APV-12-24	24V, 0~0.5A	±5%	150mV	84%

Model No.	Output	Io Tol.	R&N	Effi.
APC-12-350	9~36V, 350mA	±8%	300mV	82%
APC-12-700	9~18V, 700mA	±8%	250mV	80%

APV-16 Series (C.V. mode)

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AP	CE 1 6	Seri	es (C.	C. mode

71 (for	350mA) c 711 us	(for 700mA)
n Tol	D.8.NI	Effi

Model No.	Output	Tol.	R&N	Effi.
APV-16-5	5V, 0~2.60A	±5%	100mV	76%
APV-16-12	12V, 0~1.25A	±5%	120mV	80%
APV-16-15	15V, 0~1.00A	±5%	120mV	81%
APV-16-24	24V, 0~0.67A	±5%	150mV	83%

Model No.	Output	Io Tol.	R&N	Effi.
APC-16-350	12~48V, 350mA	±8%	300mV	84%
APC-16-700	9~24V, 700mA	±8%	250mV	83%

APV-25 Series (C.V. mode)

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Model No.	Output	Tol.	R&N	Effi.
APV-25-5	5V, 0~3.5A	±5%	100mV	77%
APV-25-12	12V, 0~2.1A	±5%	120mV	82%
APV-25-15	15V, 0~1.68A	±5%	120mV	83%
APV-25-24	24V, 0~1.05A	±5%	150mV	83%
APV-25-36	36V, 0~0.7A	±5%	150mV	83%

APC-25 Series (C.C. mode)

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Model No.	Output	Io Tol.	R&N	Effi.
APC-25-350	25~70V, 350mA	±5%	300mV	83%
APC-25-500	15~50V, 500mA	±5%	300mV	83%
APC-25-700	11~36V, 700mA	±5%	300mV	83%
APC-25-1050	9~24V, 1050mA	±5%	300mV	83%

APV-35 Series (C.V. mode)

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Model No.	Output	Tol.	R&N	Effi.
APV-35-5	5V, 0~5.0A	±5%	100mV	77%
APV-35-12	12V, 0~3.0A	±5%	150mV	84%
APV-35-15	15V, 0~2.4A	±5%	150mV	84%
APV-35-24	24V, 0~1.5A	±5%	180mV	84%
APV-35-36	36V. 0~1.0A	±5%	180mV	84%

APC-35 Series (C.C. mode)

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Model No.	Output	Io Tol.	R&N	Effi.
APC-35-350	28~100V, 350mA	±5%	350mV	84%
APC-35-500	25~70V, 500mA	±5%	350mV	84%
APC-35-700	15~50V, 700mA	±5%	350mV	84%
APC-35-1050	11~33V, 1050mA	±5%	350mV	84%



- Universal AC input / Full range (LPV)
- 180~264VAC input only (LPH-18)
- 90~132VAC input only (LPL-18)
- · Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature (LPH-18/LPL-18 only)
- · Constant voltage design (C.V. mode)
- Class 2 power unit / Pass LPS (except for LPV-100)

LPL-18

LPH-18

- · Isolation class II, no F.G.
- Withstand 300VAC surge input for 5 seconds (except for LPH/LPL-18)
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED-based decorative/architectural lighting, LED stage and theater lighting, and LED electronic displays

LPV-35

LPV-60

LPV-100

AL. CE

· 2 years warranty

LPV-20

	PUT TPUT		le l		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.5.1	15.5 a
AC input voltage	e range	90~132VAC	180~264VAC	90~264VAC			
AC inrush curre	nt (max.)	Cold start, 40A at 115VAC	Cold start, 50A at 230VAC	Cold start 60A at 230VAC		Cold start, 75A at 230VAC	
Overload	Range	>105%		110%~150%			
Protection	Туре	Hiccup mode, au	uto-recovery				
Over voltage pro	otection	115%~135% rate	ed output voltage	:			
Withstand voltag	ge	I/P-O/P: 3kVAC					
Working temper	ature	-30~+70°C			-30~+75°C	-30~+70°C	-25~+70°C
Vibration		10~500Hz, 2G 1	0 minutes /1 cyc	cle, period for 60 m	ninutes each a	long X, Y, Z axes	S
Safety standards	S	TUV EN60950-1 LPH-18	approved for	UL1310 (except for LPV-60-5 & LPV-100), UL879 (except for LPV-35/100 & LPV-60-5) approved; Design refer to TUV EN60950-1		oved;	
EMC standards		FCC part 15 class B	EN55022 class B,	EN61000-3-2 class A,	EN61000-3-3, EN	N61000-4-2,3,4,5,6	6,8,11
	Input			UL rated,	UL rated, 18A	WGx2C (60cm)	18AWGx2C (30cm)
Connection	Output	UL rated,18AWG	x2C (30cm)	18AWGx2C	UL rated,		UL rated,
	Output			(60cm)	16AWGx2C (60cm)	14AWGx2C (30cm)
Dimension (LxW	/xH)(mm)	140x 30x 22		118x 35x 26	148x 40x 30	162.5x 42.5x 32	190x 52x 37

LPL-18 Series (C.V. mode)



Model No.	Output	Tol.	R&N	Effi.
LPL-18-12	12V, 0~1.5A	±3%	120mV	80%
LPL-18-24	24V, 0~0.75A	±3%	150mV	83%
LPL-18-36	36V, 0~0.5A	±3%	200mV	84%

LPH-18 Series (C.V. mode)

	CD (C.V. mode)			
Model No.	Output	Tol.	R&N	Effi.
LPH-18-12	12V, 0~1.5A	±3%	120mV	78%
LPH-18-24	24V, 0~0.75A	±3%	150mV	82%
LPH-18-36	36V, 0~0.5A	±3%	200mV	83%

LPV-20 Series (C.V. mode)

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Model No.	Output	Tol.	R&N	Effi.
LPV-20-5	5V, 0~3.0A	±5%	80mV	77%
LPV-20-12	12V, 0~1.67A	±5%	120mV	81%
LPV-20-15	15V, 0~1.33A	±5%	120mV	83%
LPV-20-24	24V, 0~0.84A	±5%	150mV	83%

LPV-35 Series (C.V. mode)

Model No.	Output	Tol.	R&N	Effi.
LPV-35-5	5V, 0~5.0A (peak 6A)	±6%	80mV	77%
LPV-35-12	12V, 0~3.0A	±5%	120mV	84%
LPV-35-15	15V, 0~2.4A	±5%	120mV	84%
LPV-35-24	24V, 0~1.5A	±5%	150mV	85%
LPV-35-36	36V, 0~1.0A	±5%	150mV	85%

LPV-60 Series (C.V. mode)

Model No.	Output	Tol.	R&N	Effi.
LPV-60-5	5V, 0~8.0A	±8%	80mV	76%
LPV-60-12	12V, 0~5.0A	±5%	120mV	83%
LPV-60-15	15V, 0~4.0A	±5%	120mV	83%
LPV-60-24	24V, 0~2.5A	±5%	150mV	86%
LPV-60-36	36V, 0~1.67A	±5%	150mV	86%
LPV-60-48	48V, 0~1.25A	±5%	150mV	86%

c**¶**us **(€ LPV-100 Series** (C.V. mode)

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Model No.	Output	Tol.	R&N	Effi.
LPV-100-5	5V, 0~12.0A	±8%	80mV	80%
LPV-100-12	12V, 0~8.5A	±5%	120mV	85%
LPV-100-15	15V, 0~6.7A	±5%	120mV	87%
LPV-100-24	24V, 0~4.2A	±5%	150mV	88%
LPV-100-36	36V, 0~2.8A	±5%	150mV	88%
LPV-100-48	48V, 0~2.1A	±5%	150mV	89%



- Universal AC input / Full range (LPC)
- 180~264VAC input only (LPHC-18)
- 90~132VAC input only (LPLC-18)
- · Fully encapsulated with IP67 level
- Protections: Short circuit / Over voltage /

Over temperature (LPLC/LPHC-18 only)

- · Withstand 300VAC surge input for 5 seconds (except for LPHC/LPLC-18)

- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G.
- · Cooling by free air convection
- · 100% full load burn-in test
- · Low cost, high reliability
- · Suitable for LED-based decorative / architectural lighting, LED stage and theater lighting, and LED electronic displays
- · 2 years warranty

LPLC-18 LPC-20 LPC-35

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	OUTPUT	i de la companya de l		No. of the last of	The state of the s	September 1997
AC input volt	age range	90~132VAC	180~264VAC	90~264VAC		
AC inrush cu	rrent (max.)	Cold start, 40A at 115VAC	Cold start, 50A at 230VAC	Cold start, 70A at 230VAC Cold start, 60A at 230VAC		
Over voltage	protection	105%~135% rated ou	itput voltage			
Withstand vo	ltage	I/P-O/P: 3kVAC				
Working temp	perature	-30~+70°C			-30~+75°C	-30~+70°C
Vibration		10~500Hz, 2G 10 m	inutes /1 cycle, perio	d for 60 minutes each	along X, Y, Z axes	
Safety standa	ırds	Design refer to UL13	310, EN60950-1	UL1310, UL879 (LPC Design refer to TUV	C-20 only) approved; EN60950-1	
EMC standard	ds	FCC part 15 class A(LPLC-18), EN55022 class A, EN61000-3-2 class A, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11		EN55022 class B, EN61000-3-2 class A, EN61000-3-3, FN61000-4-2 3 4 5 6 8 11		N61000-3-3,
Connection	Input	UL rated, 18AWGx2C	(30cm)	UL rated,	UL rated, 18AWGx2C (60cm)	
	Output	or rateu, roawGX2C	. (30011)	18AWGx2C (60cm)	UL rated, 16AWGx2C (60cm)	
Dimension (LxWxH)(mm) 140x 30x 22 118x 35x 26 148x 40x 3			148x 40x 30	162.5x 42.5x 32		

Li LC 10 Series (c.c. mode)				LOC (TAB)
Model No.	Output	Io Tol.	R&N	Effi.
LPLC-18-350	6~48V, 350mA	±8%	300mV	82%
LPLC-18-700	6~25V, 700mA	±8%	250mV	80%

LPHC-18 Series (C.C. mode)

Model No.	Output	Io Tol.	R&N	Effi.
LPHC-18-350	6~48V, 350mA	±8%	300mV	80%
LPHC-18-700	6~25V, 700mA	±8%	250mV	80%

LPC-20 Serie	es (C.C. mode)	74	(for 350mA) c 7	JS (for 700mA)
Model No.	Output	Io Tol.	R&N	Effi.
LPC-20-350	9~48V, 350mA	±5%	200mV	83%
LPC-20-700	9~30V, 700mA	±5%	200mV	83%

LPC-35 Serie	S (C.C. mode)	(for 700mA)	c 711 US (for 1050r	mA & 1400mA)
Model No.	Output	Io Tol.	R&N	Effi.
LPC-35-700	9~48V, 700mA	±5%	200mV	85%
LPC-35-1050	9~30V, 1050mA	±5%	200mV	85%
LPC-35-1400	9~24V, 1400mA	±5%	200mV	85%

LPC-60 Series (C.C. mode) (for 1050mA & 1400mA) c us (for 1750mA) C

Model No.	Output	Io Tol.	R&N	Effi.
LPC-60-1050	9~48V, 1050mA	±5%	200mV	87%
LPC-60-1400	9~42V, 1400mA	±5%	200mV	85%
LPC-60-1750	9~34V, 1750mA	±5%	200mV	87%

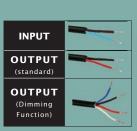
CE

ELNsepies

30~60W Single Output Class 2 Power Unit

Features

- · Universal AC input / Full range
- Fully isolated plastic case with IP64 level
- Built-in constant current limiting circuit with adjustable OCP level
- Protections: Short circuit / Over current / Over voltage
- Optional dimming function: 1.1~10VDC(D type) or PWM (P type)
- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G.
- · Cooling by free air convection
- Suitable for economical LED indoor lighting and LED electronic displays
- · 2 years warranty







Function)						
AC input voltage	range	90~264VAC ; 127~370VDC				
AC inrush curren	t (max.)	Cold start, 60A at 230VAC				
DC adjustment ra	ange	±10% rated output voltage				
Current adjustme	ent range	75%~103% rated output current adjustable by internal potentiometer				
Over current pro	tection	ion 95%~110% constant current limiting, auto-recovery				
Over voltage	Range	110%~150% rated output voltage				
protection	Туре	Shut down o/p voltage, re-power on to recover				
Withstand voltag	e	I/P-O/P: 3kVAC				
Working tempera	erature -20~+60°C (refer to output derating curve)					
Vibration		10~500Hz, 2G 10 minutes /1 cycle, period for 60 r	ninutes each along X, Y, Z axes			
Safety standards		UL1310 approved; Design refer to TUV EN60950-1				
EMC standards		EN55022 class B, EN61000-3-2 class A, EN61000-3	-3, EN61000-4-2,3,4,5,6,8,11			
	Input	UL rated, SVT 18AWGx2C (32cm)	UL rated, SVT 18AWGx2C (30cm)			
Connection	Output	Without dimming: UL rated, SVT 18AWGx2C (32cm) With dimming(optional): UL2464 18AWGx4C (32cm)	Without dimming: UL rated, SVT 18AWGx2C (30cm) With dimming(optional): UL2464 18AWGx4C (30cm)			
Dimension (LxWxH)(mm) 145x 47x 30 181x 61.5x 35			181x 61.5x 35			
Packing		0.26kg; 60pcs / 16.6kg	0.4kg; 24pcs / 11.0kg			

ELN-30 Series

ELN-30-5 ELN-30-9

ELN-30-12

ELN-30-15

ELN-30-24

ELN-30-27

ELN-30-48



Tol.	R&N	Effi.
±5%	80mV	75%
±5%	100mV	80%
±5%	120mV	82%
±5%	120mV	82%
±5%	150mV	85%

150mV

250mV

		S		

Model No.	Output	Tol.	R&N	Effi.
ELN-60-9	9V, 0~5.0A	±5%	120mV	82%
ELN-60-12	12V, 0~5.0A	±5%	120mV	85%
ELN-60-15	15V, 0~4.0A	±5%	150mV	86%
ELN-60-24	24V, 0~2.5A	±5%	150mV	87%
ELN-60-27	27V, 0~2.3A	±5%	200mV	87%
ELN-60-48	48V, 0~1.3A	±5%	250mV	88%

Dimming Control (optional)

Output 5V, 0~5.0A

9V, 0~3.4A

12V, 0~2.5A

15V, 0~2.0A

24V, 0~1.25A

27V, 0~1.12A

48V, 0~0.63A

Through the dimming function, output current of ELN series can be adjusted to reduce the energy consumption or adjust the brightness of LEDs connecting to it. Two kinds of control signal are accepted: 1.1~10VDC (D-type option) or PWM signal (P-type option).

±5%

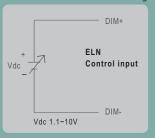
±5%

D Type :

85%

87%

1.1~10Vdc external control signal



Order No.: ELN- 30-5D

P Type:

1 (for 48V only) **c 1** Us (for 9~27V) **C E**

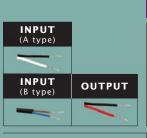
Order No.: ELN- 30 - 5 P

16~60W Single Output AC Dimmable Power Unit

Features

- ·115VAC or 230VAC input, AC phase-cut dimming, work with leading edge and trailing edge TRIAC dimmers
- Built-in active PFC function
- · Fully isolated plastic case
- · Constant current design
- ·IP30 design

- ·Class 2 power unit / Pass LPS
- · Isolation class II, no F.G.
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- · 3 years warranty







AC input vol	tage range	115VAC (90~135VAC) or 230VAC (180~295VAC)					
AC inrush cu	rrent (max.)	Cold start, 40A at 230VAC	ld start, 40A at 230VAC Cold start, 10A at 230VAC				
Withstand vo	ltage	I/P - O/P: 3.75kVAC	3.75kVAC				
Working tem	perature	-30~+60°C (refer to output derating curve)					
Safety standa	ards	UL8750, ENEC EN61347-2-13(B-Type only) approved (PCD-40/60 pending)					
FMC standar	-l -	A-Type: FCC part 18 non-consumer equipment (PCD-16/25); FCC part 15 class B (PCD-40/60)					
EMC Standar	us	B-Type: EN55015, EN61000-3-2 class C, EN61000-3-	3, EN61000-4-2,3,4,5,6,8,11, EN61547				
Cammaatian	Input	A-Type: UL1430 18AWGx2C (7.5cm); B-Type: NISPT-1	18AWGx2C (7.5cm)				
Connection	Output	UL1430 18AWGx2C (15cm)					
Dimension (L	xWxH)(mm)	84x 57x 29.5 128x 60x 31.5					

(for 350mA) c **N**us (for 700-1400mA)

TCD TO Series			Type) (A Ty	pe) (B Type)
Model No.	Output	Io Tol.	R&N	Effi.
PCD-16-350	24~48V, 350mA	±5%	4.6V	82.0%
PCD-16-700	16~24V, 700mA	±5%	2.7V	81.0%
PCD-16-1050	12~16V, 1050mA	±5%	2.2V	80.5%
PCD-16-1400	8~12V, 1400mA	±5%	2.0V	80.0%

☐ =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

PCD-60 Series

UL/C	CUL/ENEC	/CE/FCC	pending

Model No.	Output	Io Tol.	R&N	Effi.
PCD-60-500	65~115V, 500mA	±5%	4.6V	87%
PCD-60-700	50~86V, 700mA	±5%	2.7V	86%
PCD-60-1050	34~57V, 1050mA	±5%	2.2V	86%
PCD-60-1400	25~43V, 1400mA	±5%	2.0V	85%
PCD-60-1750	20~34V, 1750mA	±5%	1.5V	85%
PCD-60-2000	18~30V, 2000mA	±5%	1.5V	85%
PCD-60-2400	15~25V, 2400mA	±5%	1.0V	84%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

Model No.	Output	Io Tol.	R&N	Effi.
PCD-25-350	40~58V, 350mA	±5%	4.6V	82.0%
PCD-25-700	24~36V, 700mA	±5%	2.7V	81.0%
PCD-25-1050	16~24V, 1050mA	±5%	2.2V	80.5%
PCD-25-1400	12~18V, 1400mA	±5%	2.0V	80.0%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

PCD-40 Series

UL/CUL/ENEC/CE/FCC pending

Model No.	Output	Io Tol.	R&N	Effi.
PCD-40-350	65~115V, 350mA	±5%	4.6V	87%
PCD-40-500	45~80V, 500mA	±5%	2.7V	87%
PCD-40-700	34~57V, 700mA	±5%	2.7V	86%
PCD-40-1050	22~38V, 1050mA	±5%	2.2V	86%
PCD-40-1400	17~29V, 1400mA	±5%	2.0V	85%
PCD-40-1750	13~23V, 1750mA	±5%	2.0V	85%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

Manufacturer	Dimmer M	Dimmer Model			
LUTRON	SKYLARK SF-12P-277	(277VAC / 60Hz)			
LUTRON	DVF-103P-277	(277VAC / 60Hz)			
LUTRON	SKYLARK SF-10P	(120VAC / 60Hz)			
LUTRON	SKYLARK S-600P	(120VAC / 60Hz)			
LUTRON	SKYLARK DVF-103P	(120VAC / 60Hz)			
LEVITON	ILLUMATECH TM Cat.No.IP106	(120VAC / 60Hz)			
LEVITON	SURESLIDE TM Cat.No.6633-P	(120VAC / 60Hz)			
LEVITON	SURESLIDE TM Cat. NO.6615-P	(120VAC / 60Hz)			
JUNG	Licht-Management 225 T DE	(230VAC / 50Hz)			
JUNG	Licht-Management 225 NV DE	(230VAC / 50Hz)			
BERKER	Tronic-Drehdimmer 286710	(230-240VAC / 50Hz)			
BE LICHTREGLER	T39.01	(230VAC / 50Hz)			
BE LICHTREGLER	T46	(230VAC / 50Hz)			
CLIPSAL	32E450UDM	(220-240VAC / 50Hz)			
CLIPSAL	NO 32E450TM	(220-240VAC / 50Hz)			

- ► For PCD-16/25/40/60 only

16~60W Single Output Class 2 with PFC

▶ Features

- Universal AC input (up to 295VAC) / Full range for PLD-25
- •115VAC or 230VAC input for PLD-16/40/60
- ·Built-in active PFC function
- · Fully isolated plastic case
- · Constant current design
- · IP30 design

- ·Class 2 power unit / Pass LPS
- · Isolation class II, no F.G.
- Protections: Short circuit / Over temperature
- · Suitable for indoor LED lighting applications
- ·Cooling by free air convection
- · 3 years warranty

		PLD-16	PLD-25	PLD-40/60		
INPUT (A type) INPUT (B type)	ОИТРИТ	NEW TEN		Octobiolismon.		
AC input vol	tage range	115VAC (90~135VAC) or 230VAC (180~295VAC)	90~295VAC	115VAC (90~135VAC) or 230VAC (180~295VAC)		
AC inrush cu	irrent (max.)	Cold start, 40A at 230VAC	Cold start, 10A at 230VAC			
Withstand vo	ltage	I/P - O/P: 3.75kVAC				
Short circuit	protection	Hiccup mode, recovers automatica	ally after fault condition is removed			
Over Temp. _I	protection	95°C±10°C (RTH1) shut down o/p	voltage re-power on to recover			
Working tem	perature	-30~+60°C (refer to output deratir	ng curve)			
Safety standa	ards	UL8750, ENEC EN61347-2-13 (B-Ty	pe & PLD-25 only) approved (PLD-4	0/60 pending)		
EMC standar	de	A-Type: FCC part 18 non-consume	r equipment (PLD-16/25); FCC part	15 class B (PLD-40/60)		
EMC Standar	us	B-Type & PLD-25: EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4,2,3,4,5,6,8,11, EN61547				
	Input	A-Type: UL1430 18AWGx2C (7.5cm)				
Connection B-Type & PLD-25: NISPT-1 18AWGx2C (7.5cm)						
	Output	UL1430 18AWGx2C (15cm)				
Dimension (l	_xWxH)(mm)	84x 57x 29.5 128x 60x 31.5				

PLD-16 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLD-16-350	24~48V, 350mA	±5%	4.6V	86%
PLD-16-700	16~24V, 700mA	±5%	2.7V	86%
PLD-16-1050	12~16V, 1050mA	±5%	2.2V	84%
PLD-16-1400 [8~12V, 1400mA	±5%	2.0V	83%

=A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

PLD-40 Series



Model No.	Output	Io Tol.	R&N	Effi.
PLD-40-350 🗌	65~115V, 350mA	±5%	4.6V	88%
PLD-40-500 🗌	45~80V, 500mA	±5%	2.7V	88%
PLD-40-700	34~57V, 700mA	±5%	2.7V	87%
PLD-40-1050	22~38V, 1050mA	±5%	2.2V	87%
PLD-40-1400 🗌	17~29V, 1400mA	±5%	2.0V	86%
PLD-40-1750	13~23V, 1750mA	±5%	2.0V	86%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

PLD-25 Series R 10 (for 350/700mA) R 10 (for 1050/1400mA) R 17 FC (F PLD-60 Series UL/CUL/ENEC/CE/FCC pending

	(101 330/7001114)			
Model No.	Output	Io Tol.	R&N	Effi.
PLD-25-350	36~58V, 350mA	±5%	4.6V	85%
PLD-25-700	24~36V, 700mA	±5%	2.7V	86%
PLD-25-1050	16~24V, 1050mA	±5%	2.2V	85%
PLD-25-1400	12~18V, 1400mA	±5%	2.0V	84%

Model No.	Output	Io Tol.	R&N	Effi.
PLD-60-500 🗌	65~115V, 500mA	±5%	4.6V	88%
PLD-60-700 🗌	50~86V, 700mA	±5%	2.7V	87%
PLD-60-1050	34~57V, 1050mA	±5%	2.2V	87%
PLD-60-1400	25~43V, 1400mA	±5%	2.0V	86%
PLD-60-1750	20~34V, 1750mA	±5%	1.5V	86%
PLD-60-2000	18~30V, 2000mA	±5%	1.5V	86%
PLD-60-2400 🗌	15~25V, 2400mA	±5%	1.0V	85%

 \square =A or B-Type; A-Type: 90~135VAC, B-Type: 180~295VAC

LPF series

16~90W Single Output Class 2 with PFC

Features

INPUT

OUTPUT
Non-Dimming
Function)

OUTPUT
(Dimming
Function)

- Universal AC input (up to 305VAC) / Full range
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function
- · Fully isolated plastic case
- · Isolation class II, no F.G.
- · Class 2 power unit / Pass LPS

- Built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance) for D type
- Fully encapsulated with IP67 level [optional for LPF-16(D)]
 Cooling by free air convection
- · Suitable for LED lighting and moving sign applications
- · Suitable for dry, damp, wet location
- · 3 years warranty

LPF-16(D)/25(D)





LPF-40(D)/60(D)



AC input volt	age range	90~305VAC; 127~431VDC			
AC inrush cu	rrent (max.)	Cold start, 50A at 230VAC	Cold start, 75A at 230VAC	Cold start, 70A at 230VAC	
Over current	protection	95% ~108% constant current,	auto-recovery		
Over voltage	protection	110%~145% rated output voltage			
Withstand vo	ltage	I/P - O/P: 3.75kVAC			
Working tem	perature	-40~+70°C (refer to output derating curve)			
Safety standa	ards	UL8750, ENEC EN61347-1, EN61347-2-13 approved for LPF-16(D)/25(D); UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved for LPF-40(D)/60(D)/90(D)			
EMC standard	ds	EN55015, EN61547, EN61000-	3-2 class C, EN61000-3-3, EN61000-	-4-2,3,4,5,6,8,11	
	Input	UL rated, SJTW 18AWGx2C (30	Ocm)		
Connection	Output	LPF-16/25: UL rated, SVT 18AWGx2C (30cm) LPF-16D/25D: UL rated, SVT 18AWGx4C (30cm)	LPF-40/60: UL rated, SVT 18AWGx2C (30cm) LPF-40D/60D: UL2464 18AWGx2C(30cm)+22AWGx2C (30cm)	LPF-90: UL rated, SVT 18AWGx2C (30cm) LPF-90D: UL2464 18AWGx4C (30cm)	
Dimension (L	.xWxH)(mm)	148x 40x 32	162.5x 43x 32	161x 61x 36	

LPF-16 Series Russ (for 12-36t) TO CBCE

	_			
Model No.	Output	Tol.	R&N	Effi.
LPF-16 -12	12V, 0~1.34A	±4.0%	150mV	83.0%
LPF-16 -15	15V, 0~1.07A	±4.0%	150mV	83.0%
LPF-1620	20V, 0~0.80A	±4.0%	150mV	84.5%
LPF-16 -24	24V, 0~0.67A	±4.0%	150mV	84.5%
LPF-16 -30	30V, 0~0.54A	±4.0%	200mV	84.5%
LPF-16 -36	36V, 0~0.45A	±4.0%	250mV	85.0%
LPF-16 -42	42V, 0~0.39A	±4.0%	250mV	85.0%
LPF-16 -48	48V, 0~0.34A	±4.0%	250mV	85.0%
LPF-1654	54V, 0~0.30A	±4.0%	350mV	84.5%

LPF-25 S	eries	(for 42~54V) c	911 US (for 12~36V)	W"CB(E

Model No.	Output	Tol.	R&N	Effi.
LPF-25 -12	12V, 0~2.10A	±4.0%	150mV	84.0%
LPF-25 -15	15V, 0~1.67A	±4.0%	150mV	84.0%
LPF-2520	20V, 0~1.25A	±4.0%	150mV	85.0%
LPF-25 -24	24V, 0~1.05A	±4.0%	150mV	85.5%
LPF-25 -30	30V, 0~0.84A	±4.0%	200mV	85.5%
LPF-25 -36	36V, 0~0.70A	±4.0%	250mV	85.5%
LPF-25 -42	42V, 0~0.60A	±4.0%	250mV	85.5%
LPF-25 -48	48V, 0~0.53A	±4.0%	250mV	86.0%
LPF-25 -54	54V, 0~0.47A	±4.0%	350mV	86.0%

LPF-40□ Serie	s (for 48–54V) c 1 US (for 12–42V	(<u>a</u>	≜ CBC	ϵ

Model No.	Output	Tol.	R&N	Effi.
LPF-4012	12V, 0~3.34A	±4.0%	150mV	84.0%
LPF-4015	15V, 0~2.67A	±4.0%	150mV	85.0%
LPF-40 -20	20V. 0~2.00A	±4.0%	150mV	86.0%

Model No.	Output	Tol.	R&N	Effi.
LPF-40 -24	24V, 0~1.67A	±4.0%	150mV	87.0%
LPF-40 -30	30V, 0~1.34A	±4.0%	200mV	88.0%
LPF-40□-36	36V, 0~1.12A	±4.0%	250mV	88.0%
LPF-40 -42	42V, 0~0.96A	±4.0%	250mV	88.5%
LPF-40 -48	48V, 0~0.84A	±4.0%	250mV	89.0%
LPF-40 -54	54V, 0~0.76A	±4.0%	350mV	89.0%

LPF-60□ Ser	ies 🕞 🕄 (for 48~5)	4V) c 11 us (for 12~42	v) 🚇 🖭 🛕	©CB(€
Model No.	Output	Tol.	R&N	Effi.
LPF-60 -12	12V, 0~5.00A	±4.0%	150mV	86%
LPF-60 -15	15V, 0~4.00A	±4.0%	150mV	87%
LPF-6020	20V, 0~3.00A	±4.0%	150mV	88%
LPF-60 ☐-24	24V, 0~2.50A	±4.0%	150mV	89%
LPF-60 ☐-30	30V, 0~2.00A	±4.0%	200mV	90%
LPF-60 ☐-36	36V, 0~1.67A	±4.0%	250mV	90%
LPF-60 -42	42V, 0~1.43A	±4.0%	250mV	90%
I DE-60 -18	48V/ 01 25A	±4 0%	250m\/	0.0%

±4.0%

350mV

90%

54V, 0~1.12A

LPF-90 Series (for 48-54V) c TU us (for 15-42V)					
Model No.	Output	Tol.	R&N	Effi.	
LPF-90 -15	15V, 0~5.00A	±4.0%	150mV	89.0%	
LPF-90 -20	20V, 0~4.50A	±4.0%	150mV	89.5%	
LPF-90 -24	24V, 0~3.75A	±4.0%	150mV	90.0%	
LPF-90 -30	30V, 0~3.00A	±4.0%	200mV	90.5%	
LPF-90 -36	36V, 0~2.50A	±4.0%	200mV	90.5%	
LPF-90 -42	42V, 0~2.15A	±4.0%	200mV	90.5%	
LPF-90 -48	48V, 0~1.88A	±4.0%	200mV	90.5%	
LPF-9054	54V, 0~1.67A	±4.0%	200mV	90.5%	

= Blank, D: Blank; without dimming function, D; with dimming function

LPF-60 -54



▶ Features

- · Universal AC input / Full range
- Fully isolated plastic case with screw terminal style of I/O
- Built-in constant current limiting circuit (C.V.+C.C. mode)
- · Adjustable output voltage and current level
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- High efficiency up to 90%
- · Class 2 power unit / Pass LPS

- · Isolation class II, no F.G. for PLC-30
- · Cooling by free air convection
- Protections: Short circuit / Over current / Over voltage / Over temperature
- · 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- · 2 years warranty

PLC-30	PLC-45	PLC-60	PLC-100
THE MANAGE IS A STATE OF THE PARTY OF THE PA	S S S S S S S S S S S S S S S S S S S	and and the second	The state of the s

AC input voltage range	90~264VAC ; 127~370VDC					
AC inrush current (max.)	Cold start, 40A at 230VAC	Cold start, 40A at 230VAC				
DC adjustment range	95%~108% rated output voltage a potentiometer	djustable by internal	85%~100% rated output voltage			
Current adjustment range	75%~103% rated output current ad potentiometer	djustable by internal	75%~100% rated output voltage			
	100%~110% constant current	95%~110% constant current	95%~102% constant current			
Over current protection	limiting, auto-recovery	limiting, auto-recovery				
Over voltage protection	110%~155% rated output voltage	e 115%~140% rated output voltage 107%~135% rated output voltage				
Setup time	1500ms at full load and 230VAC		1200ms at full load and 230VAC			
Withstand voltage	I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 1.88k	«VAC, O/P-FG:0.5kVAC			
Working temperature	-30~+50°C (refer to output deration	ng curve)				
	UL1310, TUV EN61347-1, EN6134	7-2-13, PSE J61347-1, J61347-2-13	Bapproved;			
Safety standards	TUV EN60950-1 approved for PLC	-100 only				
5146	EN55015, EN55022 class B (PLC-4	5/60/100), EN61000-3-2 class C, I	EN61000-3-3,			
EMC standards	EN61000-4-2,3,4,5,6,8,11, EN615	EN61000-4-2,3,4,5,6,8,11, EN61547				
Connection (Input / Output)	2+2P screw terminal block	3+2P screw terminal block				
Dimension (LxWxH)(mm)	160x 46x 30	181.5x 62x 35 200.5x 69.5x 35				
Packing	0.2kg; 70pcs / 15kg	0.41kg; 30pcs / 13.3kg	0.52kg; 25pcs / 14kg			

PLC-30 Series R N (for 48V only) c N us (for 9-36V) (CB(E PLC-60 Series R N (for 48V only) c N us (for 12-36V) (CB(E PLC-60

Model No.	Output	Tol.	R&N	Effi.
PLC-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLC-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLC-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLC-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLC-30-24	24V, 0~1.25A	±10%	2.4V	84.0%
PLC-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLC-30-36	36V, 0~0.84A	±10%	3.6V	85.0%
PLC-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

Model No.	Output	Tol.	R&N	Effi.
PLC-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLC-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLC-45-20	20V, 0~2.3A	±10%	1.8V	86.5%
PLC-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLC-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLC-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLC-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

Model No.	Output	Tol.	R&N	Effi.
PLC-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLC-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLC-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLC-60-24	24V, 0~2.5A	±10%	2.4V	87.0%
PLC-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLC-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLC-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

PLC-100 Series (R) N (for 48V only) c N us (for 12-36V) (A) CB(E)

	_			
Model No.	Output	Tol.	R&N	Effi.
PLC-100-12	12V, 0~5.0A	±3%	150mV	84.5%
PLC-100-15	15V, 0~5.0A	±3%	150mV	86.5%
PLC-100-20	20V, 0~4.8A	±3%	150mV	90.0%
PLC-100-24	24V, 0~4.0A	±3%	150mV	90.0%
PLC-100-27	27V, 0~3.55A	±3%	150mV	90.0%
PLC-100-36	36V, 0~2.65A	±2%	150mV	90.0%
PLC-100-48	48V, 0~2.0A	±2%	200mV	89.0%

PLN series

20~96W Single Output Class 2 with PFC

Features

- Universal AC input (up to 295VAC) / Full range
- Fully isolated plastic case with IP64 level
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Built-in constant current limiting circuit (C.V.+C.C. mode)
- · Class 2 power unit / Pass LPS

- \cdot Isolation class II, no F.G. for PLN-20/30
- User adjustable output voltage (except for PLN-20) and current protection level
- · Cooling by free air convection
- · Suitable for LED lighting and moving sign applications
- · 2 years warranty

	PLN-20	PLN-30	PLN-45/60	PLN-100		
INPUT PLN-20 PLN-30 RN45/60/100 OUTPUT PLN-20 PLN-30/45/60/100						
AC input voltage range	90~277VAC; 127~392VDC	90~295VAC; 127~	417VDC			
AC inrush current (max.)	Cold start, 40A at 230VAC					
DC adjustment range	None	95%~108% rated of by internal potential	utput voltage adjustable ometer	85%~100% rated output voltage		
Current adjustment range	75%~100%	75%~103% rated o	utput current adjustable b	y internal potentiometer		
Over current protection	95%~110% constant current limiting, auto-recovery	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery	95%~102% constant current limiting, auto-recovery		
Over voltage protection	105%~142% rated output voltage	110%~155% rated output voltage	115%~140% rated output voltage	107%~135% rated output voltage		
Setup, rise, hold up time	2300ms(setup time) at full load and 230VAC, no hold up time	1500ms (setup time	e) at full load and 230VAC,	1200ms, 80ms, 60ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3.75kVAC					
Working temperature	-30~+60°C	-30~+50°C (refer t	o output derating curve)			
Safety standards	UL879, UL1310, UL8750(PLN-45/	EN61347-2-13, PSE J61347-1, J61347-2-13 approved for PLN-20 LN-45/60), TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved for PLN-30/45/60 TUV EN61347-1, EN61347-2-13, EN60950-1, PSE J61347-1, J61347-2-13 approved for PLN-100				
EMC standards	EN55015, EN55022 class B EN61000-4-2,3,4,5,6,8,11,	ss B (PLN-60/100 only), EN61000-3-2 class C, EN61000-3-3, 11, EN61547				
Connection	UL rated, UL1015	UL rated, SVT	UL rated, SVT 18AWGx3C (30cm)	UL rated, SVT 18AWGx3C (31cm)		
Output	18AWGx2C (32cm)	18AWGx2C (32cm)	UL rated, SVT 18AWGx2C (30cm)	UL rated, SVT 18AWGx2C (31cm)		
Dimension (LxWxH) (mm)	148.5x 38.5x 28	145x 47x 30	181x 61.5x 35	200x 70.5x 35		

PLN-20 Serie	es	P.A	∆ us 🎒 ≡ 🖳	®CB (€
Model No.	Output	Tol.	R&N	Effi.
PLN-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLN-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLN-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLN-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLN-20-48	48V, 0~0.42A	±10%	3.8V	83.5%
		@ = 1	81	

PLN-30 Serie	es Po (f	or 9~36V) (for 48V only) (f	for 9~36V)	£
Model No.	Output	Tol.	R&N	Effi.
PLN-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLN-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLN-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLN-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLN-30-24	24V, 0~1.25A	±10%	2.6V	84.0%
PLN-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLN-30-36	36V, 0~0.84A	±10%	4.5V	85.0%
PLN-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

PLN-45 Ser	ies (F) Nu (fo	or 48V only) C TUS (for 12~36V)	₹®CB (€
Model No.	Output	Tol.	R&N	Effi.
PLN-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLN-45-15	15V, 0~3.0A	±10%	2.4V	85.0%

Model No.	Output	Tol.	R&N	Effi.
PLN-45-20	20V, 0~2.3A	±10%	1.8V	86.5%
PLN-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLN-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLN-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLN-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

PLN-60 Serie	es PM (for	r 48V only) c SUs (f	or 12~36V)	E CB(€
Model No.	Output	Tol.	R&N	Effi.
PLN-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLN-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLN-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLN-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
PLN-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLN-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLN-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

Model No.	Output	Tol.	R&N	Effi.				
PLN-100-12	12V, 0~5.0A	±3%	150mV	84.5%				
PLN-100-15	15V, 0~5.0A	±3%	150mV	86.5%				
PLN-100-20	20V, 0~4.8A	±3%	150mV	90.0%				
PLN-100-24	24V, 0~4.0A	±3%	150mV	90.0%				
PLN-100-27	27V, 0~3.55A	±3%	150mV	90.0%				
PLN-100-36	36V, 0~2.65A	±2%	150mV	90.0%				
PLN-100-48	48V, 0~2.0A	±2%	200mV	89.0%				

PLN-100 Series (FC) \$\frac{1}{4}\text{(for 48V only)} c\$\frac{1}{4}\text{US (for 12-36V)} \text{ } \te

HLNseries

40~80W Single Output Class 2 with PFC

▶ Features

- Universal AC input (up to 305VAC) / Full range
- Fully isolated plastic case with IP64 level
- Built-in active PFC function, PF> 0.9 for 60% of load or higher
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Built-in constant current limiting circuit (C.V.+C.C. mode)
- · Class 2 power unit / Pass LPS
- · High efficiency up to 91%
- Cooling by free air convection

- · Suitable for dry, damp location
- · Suitable for LED lighting and moving sign applications
- Multiple models for choice:

A-Type: IP64 rated. Output and constant current level can be adjusted through internal potentiometer

B-Type: IP64 rated and built-in 3 in 1 dimming function
(1-10VDC_PWM signal_or resistance)

· 3 years warranty



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AC input voltag	e range	90~305VAC; 127~431VDC			
AC inrush curre	nt (max.)	Cold start, 70A at 230VAC			
DC adjustment	range	±10% rated output voltage (Type A only)			
Current adjustn	nent range	60%~100% rated output current adjustable by inte	rnal potentiometer or through output cable		
Over current pr	otection	95%~108% constant current limiting, auto-recov	ery		
Over voltage pr	otection	109%~145% rated output voltage			
Setup, rise, holo	d up time	1000ms, 80ms, 16ms at full load and 230VAC			
Withstand voltage I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG:0.5kVAC		5kVAC			
Working temper	rature	-40~+50°C (refer to output derating curve)			
Safety standard	S	UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; Design refer to UL/EN60950-1, EN60335-1for HLN-40H/60H			
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Commontion	Input	UL rated, SVT 18AWGx3C (30cm)			
Connection	Output	A Type: UL rated, SVT 18AWGx2C (30cm); B Typ	e: UL rated, SVT 18AWGx4C (30cm)		
Dimension (LxW	/xH) (mm)	161x 61.5x 35	181x 61.5x 35		

HLN-40H Series	P % (for 48~54V) c	US (for 12~42V)		CBCE
Model No.	Output	Tol.	R&N	Effi.
HLN-40H-12(A)	12V, 0~3.33A	±2.5%	150mV	86.5%
HLN-40H-15A	15V, 0~2.67A	±2.0%	150mV	86.5%
HLN-40H-20(A)	20V, 0~2.00A	±1.0%	150mV	87.5%
HLN-40H-24(A)	24V, 0~1.67A	±1.0%	150mV	88.0%
HLN-40H-30(A)	30V, 0~1.34A	±1.0%	200mV	88.5%
HLN-40H-36(A)	36V, 0~1.12A	±1.0%	200mV	88.5%
HLN-40H-42(A)	42V, 0~0.96A	±1.0%	300mV	88.5%
HLN-40H-48A	48V, 0~0.84A	±1.0%	300mV	89.0%
HLN-40H-54(A)	54V, 0~0.75A	±1.0%	300mV	89.0%
O - A or P				

 \bigcirc = A or B

HLN-60H Series (P) 1 (for 48-54V) c 1 us (for 15-42V) (D) (E) (F) (F) (F) (F) (F) (F) (F) (F) (F) (F									
Model No.	Output	Tol.	R&N	Effi.					
HLN-60H-15 (A)	15V, 0~4.0A	±2.0%	150mV	87.0%					
HLN-60H-20 (A)	20V, 0~3.0A	±1.0%	150mV	88.5%					
HLN-60H-24 (A)	24V, 0~2.5A	±1.0%	150mV	89.0%					
HLN-60H-30 (A)	30V, 0~2.0A	±1.0%	200mV	89.5%					

Model No.	Output	Tol.	R&N	Effi.
HLN-60H-36A	36V, 0~1.70A	±1.0%	200mV	90.0%
HLN-60H-42 (A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLN-60H-48A	48V, 0~1.30A	±1.0%	300mV	90.5%
HLN-60H-54 (A)	54V, 0~1.15A	±1.0%	300mV	90.5%

 \bigcirc = A or B

HLN-80H Series R N (for 48-54) c N us (for 12-42) E CBC E								
Model No.	Output	Tol.	R&N	Effi.				
HLN-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%				
HLN-80H-15A	15V, 0~5.0A	±2.0%	150mV	89.0%				
HLN-80H-20A	20V, 0~4.0A	±1.0%	150mV	90.0%				
HLN-80H-24(A)	24V, 0~3.4A	±1.0%	150mV	90.5%				
HLN-80H-30(A)	30V, 0~2.7A	±1.0%	200mV	91.0%				
HLN-80H-36A	36V, 0~2.3A	±1.0%	200mV	91.0%				
HLN-80H-42A	42V, 0~1.95A	±1.0%	200mV	91.0%				
HLN-80H-48(A)	48V, 0~1.7A	±1.0%	200mV	91.0%				
HLN-80H-54A	54V, 0~1.5A	±1.0%	200mV	91.0%				

 \bigcirc = A or



40~60W Multiple-Stage Output Current Power Unit

HARRIE .

LCM-40(DA) / 60(DA)



Features

- · Output current level selectable by DIP S.W.
- · 180~295VAC input only
- Built-in active PFC function
- Protections: Short circuit / Over voltage / Over temperature
- · Cooling by free air convection
- · Fully isolated plastic case with strain relief design
- · Class II power unit, no FG
- IP20 design
- Built-in 0~10Vdc and PWM signal dimming function (LCM-40/60)
- Built-in DALI interface and push dimming function (LCM-40DA/60DA)
- Built-in 12V/50mA auxiliary output
- Temperature compensation function by external NTC
- No load power consumption <1W
- Power supplies synchronization function up to 10 units
- Suitable for indoor LED lighting applicaions
- · 3 years warranty

AC input voltage range		180~295VAC; 254~417VDC				
AC inrush current (max.)		Cold start, 10A at 230VAC				
Short circuit pr	otection	Hiccup mode, recovers automatically after fault condiction is removed				
Over voltage	Range	130~140VDC				
protection	Type	Shutdown o/p voltage, re-power on to recover				
Over Temp.	Range	90°C ±10°C (RTH2)				
protection	Type	Shut down o/p voltage, recovers automatically after temperature goes down				
Setup, rise, hol	d up time	1000ms, 80ms, 16ms at full load and 230VAC				
Withstand volta	age	I/P-O/P: 3.75kVAC				
Working tempe	rature	-30~+60°C (refer to output derating curve)				
Safety standard	ls	Design refer to UL8750, ENEC EN61347-1, EN61347-2-13				
EMC standards		Design refer to EN55015, EN61000-3-2 class C				
EMC Standards		EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547				
Dimension (Lx\	WxH)(mm)	123.5x 79x 23				

LCM-40(DA) Series

P UL/ENEC/CE pending

Output	Io Tol.	R&N	Effi.	DIP S.W.					
Output	10 101.	KON	EIII.		2	3	4	5	6
350mA, 2~118V									
500mA, 2~80V									ON
600mA, 2~67V	. 50/	200 \/	200mV 90%					ON	ON
700mA, 2~57V (Factory setting)	±5%	200mv					ON	ON	ON
900mA, 2~45V						ON	ON	ON	ON
1050mA, 2~40V					ON	ON	ON	ON	ON

LCM-60(DA) Series

WUL/ENEC/CE pending

Output	Io Tol.	R&N	Effi.	DIP S.W.			S.W.		
Output	10 101.	KON	LIII.		2	3	4	5	6
500mA, 2~118V									
600mA, 2~100V									ON
700mA, 2~86V (Factory setting)	±5%	200mV	90%					ON	ON
900mA, 2~67V		2001110	90%				ON	ON	ON
1050mA, 2~57V						ON	ON	ON	ON
1400mA, 2~42V					ON	ON	ON	ON	ON

- \blacktriangleright LCM-40/60 are primary models with 0~10Vdc and PWM signal dimming function.
- ► LCM-40DA/60DA have DALI interface and push dimming function.

- · Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage /
 Over temperature (PLP-20 only)
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- · Cooling by free air convection

- · Class 2 power unit / Pass LPS
- · Isolation class II, no F.G. for PLP-20
- Built-in constant current limiting circuit (C.V.+C.C. mode)
- · Suitable for building in LED lighting systems
- · 2 years warranty

		PLP-20	PLP-30	PLP-45/60		
AC input volta	age range	90~277VAC; 127~392VDC	90~264VAC; 127~370VDC			
AC inrush cur	rent (max.)	Cold start, 40A at 230VAC		Cold start, 42A at 230VAC		
Current adjus	table range	75%~100% rated output current				
Over current	Range	95%~110%	100%~110%			
protection	Туре	Constant current limiting, auto-recovery				
Setup, rise, ho	old up time	2300ms, 200ms at full load and 230VAC, no hold up time	1200ms(setup time) at full load and 230VAC, no hold up time	1000ms(setup time) at full load and 230VAC, no hold up time		
Withstand vol	tage	I/P-O/P: 3.75kVAC	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVA	C, O/P-FG: 0.5kVAC		
Working temp	erature	-30~+60°C	-30~+70°C (refer to output derating	curve)		
Safety standa	rds	UL8750, TUV EN61347-1, EN61347	-2-13 approved			
EMC standard	S	EN55015, EN61000-3-2 class C, EN	61000-3-3, EN61000-4-2,3,4,5,6,8,1	I, EN61547		
Connection		UL1015 18AWGx2C (30cm)	3+2P / 3.96mm pitch, JST P/N: B3P	/ B2P-VH		
Dimension (L	(WxH)(mm)	140x 32x 22	101.6x 50.8x 26.6 101.6x 50.8x 29.6			

PLP-20 Serie	es es	₽.A	Us A Party	CBCE
Model No.	Output	Tol.	R&N	Effi.
PLP-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLP-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLP-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLP-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLP-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

PLP-45 Serie	S F M	r 48V only) c TUS (for 12/24V)	CBCE
Model No.	Output	Tol.	R&N	Effi.
PLP-45-12	12V, 0~3.8A	±10%	4.2V	86%
PLP-45-24	24V, 0~1.9A	±10%	3.8V	89%
PLP-45-48	48V, 0~0.95A	±10%	4.8V	89%

PLP-30 Serie	2S (for 48\)	/ only) c US (for 12	2/24V)	CB (E
Model No.	Output	Tol.	R&N	Effi.
PLP-30-12	12V, 0~2.5A	±10%	2.0V	83.0%
PLP-30-24	24V, 0~1.3A	±10%	2.4V	85.5%
PLP-30-48	48V, 0~0.63A	±10%	4.8V	86.5%

PLP-60 Serie	es (F) N _{(for}	-48V only) c 711 US (fe	or 12/24V)	CRCE
Model No.	Output	Tol.	R&N	Effi.
PLP-60-12	12V, 0~5.0A	±10%	4.5V	84%
PLP-60-24	24V, 0~2.5A	±10%	4.5V	88%
PLP-60-48	48V, 0~1.3A	±10%	4.8V	89%

Protection against overheating to prevent the lamp controlgear case temperature under any conditions of use from exceeding the indicated value (110°C) Suitable for direct mounting on normally flammable surfaces, such as wood (>2mm) Based on VDE0710-14, can be installed inside a wooden material like wooden cabinet. The minimum distance between the product enclosure to wooden material in each side is defined. LPS Limited power source te: 80°C ta: 40°C Full load operation up to 40°C with surface temperature of case < 80°C SELV Vo< 120VDC can have this mark on the unit

HLP series

40~80W Single Output Class 2 with PFC

Features

- · Universal AC input (up to 305VAC) / Full range
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC, PF>0.95
- ·Output constant current level adjustable
- Built-in constant current limiting circuit (C.V.+C.C. mode)
- ·Class 2 power unit / Pass LPS
- ·Cooling by free air convection
- ·Suitable for built-in LED lighting system
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)
- · 3 years warranty

HLP-40H/HLP-60H



AC input voltage range	90~305VAC ; 127~431VDC		
AC inrush current (max.	Cold start, 70A at 230VAC		
DC adjustment range	±10% rated output voltage		
Current adjustment rang	e 60%~100% rated output current adjustable by potentiometer or through output connector		
Over current protection	95%~108% constant current limiting, auto-recovery		
Over voltage protection	109%~145% rated output voltage, shut off, re-power on to recover		
Setup, rise, hold up time	1000ms, 80ms, 16ms at full load and 230VAC 1000ms, 200ms, 16ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG:0.5kVAC		
Working temperature	-40~+70°C (refer to output derating curve)		
Safety standards	UL8750, TUV EN61347-1, EN61347-2-13 approved; Design refer to EN60335-1(HLP-40H/60H), UL60950-1, EN60950-1		
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
Connection	6 6D/2 OGmm mitch IST D/N. DGD VII		
Connection Output	6+6P/3.96mm pitch, JST P/N: B6P-VH		
Dimension (LxWxH) (mn) 147x 53x 27 167x 53x 29.5		

Model No.	Output	Tol.	R&N	Effi.
HLP-40H-12	12V, 0~3.33A	±2.5%	150mV	87.0%
HLP-40H-15	15V, 0~2.67A	±2.0%	150mV	87.0%
HLP-40H-20	20V, 0~2.00A	±1.0%	150mV	88.0%
HLP-40H-24	24V, 0~1.67A	±1.0%	150mV	88.0%
HLP-40H-30	30V, 0~1.34A	±1.0%	200mV	88.5%
HLP-40H-36	36V, 0~1.12A	±1.0%	200mV	89.0%
HLP-40H-42	42V, 0~0.96A	±1.0%	300mV	89.0%
HLP-40H-48	48V, 0~0.84A	±1.0%	300mV	89.5%
HLP-40H-54	54V, 0~0.75A	±1.0%	300mV	89.5%

HLP-60H Series	(for 48V/54V)	c 711 us (for 12~42V)		CB	ϵ	
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Model No.	Output	Tol.	R&N	Effi.
HLP-60H-15	15V, 0~4.0A	±2.0%	150mV	88.0%
HLP-60H-20	20V, 0~3.0A	±1.0%	150mV	89.0%
HLP-60H-24	24V, 0~2.5A	±1.0%	150mV	89.5%
HLP-60H-30	30V, 0~2.0A	±1.0%	200mV	90.0%

Model No.	Output	Tol.	R&N	Effi.
HLP-60H-36	36V, 0~1.70A	±1.0%	200mV	90.0%
HLP-60H-42	42V, 0~1.45A	±1.0%	300mV	90.0%
HLP-60H-48	48V, 0~1.30A	±1.0%	300mV	90.5%
HLP-60H-54	54V, 0~1.15A	±1.0%	300mV	90.5%

HLP-80H Series	(for 48V/54	4V) c 711 US (for 1	2~42V) ************************************	CB (€
Model No.	Output	Tol.	R&N	Effi.
HLP-80H-12	12V, 0~5.0A	±2.5%	150mV	87.5%
111 0 0011 1 5	151/0504	. 2. 00/	150 1/	00.50/

HLP-80H-12	12V, 0~5.0A	±2.5%	150mV	87.5%
HLP-80H-15	15V, 0~5.0A	±2.0%	150mV	88.5%
HLP-80H-20	20V, 0~4.0A	±1.0%	150mV	89.5%
HLP-80H-24	24V, 0~3.4A	±1.0%	150mV	90.0%
HLP-80H-30	30V, 0~2.7A	±1.0%	200mV	90.0%
HLP-80H-36	36V, 0~2.3A	±1.0%	200mV	90.0%
HLP-80H-42	42V, 0~1.95A	±1.0%	200mV	90.0%
HLP-80H-48	48V, 0~1.7A	±1.0%	200mV	90.0%
HLP-80H-54	54V, 0~1.5A	±1.0%	200mV	90.0%

60~96W Single Output Class 2 with PFC

CEN-60/75

Features

- Universal AC input (up to 295VAC) / Full range
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- · IP66 design
- Meet 4kV surge immunity level (IEC61000-4-5)

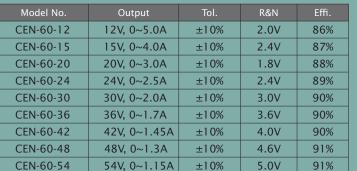
- · Class 2 power unit / Pass LPS
- · Cooling by free air convection
- · Suitable for dry, damp and wet location
- · Suitable for LED lighting and moving sign applications

CEN-100

· 3 years warranty

-	UTPUT	CEN 400-30 com to 500 de Cente	The control of the co	
AC input voltage	e range	90~295VAC; 127~417VDC		
AC inrush curre	nt (max.)	Cold start, 45A at 230VAC	Cold start, 60A at 230VAC	
DC adjustment	range	±10% rated output voltage		
Current adjustm	ent range	75%~100% rated output current		
Over current pro	otection	95%~110% constant current limiting, auto-recovery		
Over voltage pro	otection	110%~140% shut off, re-power on to recover	110%~135% shut off, re-power on to recover	
Over temp. prot	ection	85°C ±10°C (RTH1) shut down o/p voltage, recovers automatically after fault condition goes down		
Setup time		1400ms at full load and 230VAC, no hold up time	3000ms at full load and 230VAC, no hold up time	
Withstand voltage	ge	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kV	VAC	
Working temper	ature	-30~+70°C (refer to output derating curve)		
Safety standards UL8750, UL879 (except for CEN-100), TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved		7-1, EN61347-2-13, PSE J61347-1,		
EMC standards	EMC standards EN55015, EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
Input		UL rated, SJTW 18AWGx3C (30cm)		
Connection	Output	UL rated, SVT 18AWGx2C (30cm)		
Dimension (LxW	/xH) (mm)	185x 62.5x 40.5	195x 62.5x 40.5	

CEN-60 Series



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PAL AR CRCE

CEN-75 S	eries
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CEN-75 Series		c Naus		ODCC
Model No.	Output	Tol.	R&N	Effi.
CEN-75-15	15V, 0~5.00A	±10%	2.7V	87%
CEN-75-20	20V, 0~3.75A	±10%	2.0V	88%
CEN-75-24	24V, 0~3.15A	±10%	2.7V	89%

Model No.	Output	Tol.	R&N	Effi.
CEN-75-30	30V, 0~2.50A	±10%	3.0V	90%
CEN-75-36	36V, 0~2.10A	±10%	3.6V	90%
CEN-75-42	42V, 0~1.80A	±10%	4.0V	90%
CEN-75-48	48V, 0~1.57A	±10%	4.6V	91%
CEN-75-54	54V, 0~1.40A	±10%	5.0V	91%

CEN-100 Series	(for 48V/54V)	c 7 US (for 20~42V)		CBCE
Model No.	Output	Tol.	R&N	Effi.
CEN-100-20	20V, 0~4.80A	±10%	2.0V	88%
CEN-100-24	24V, 0~4.00A	±10%	2.7V	89%
CEN-100-30	30V, 0~3.20A	±10%	3.0V	90%
CEN-100-36	36V, 0~2.65A	±10%	3.6V	90%
CEN-100-42	42V, 0~2.28A	±10%	4.0V	90%
CEN-100-48	48V, 0~2.00A	±10%	4.6V	91%
CEN-100-54	54V, 0~1.77A	±10%	5.0V	91%
CEN-100-30 CEN-100-36 CEN-100-42 CEN-100-48	30V, 0~3.20A 36V, 0~2.65A 42V, 0~2.28A 48V, 0~2.00A	±10% ±10% ±10% ±10%	3.0V 3.6V 4.0V 4.6V	90% 90% 90% 91%

- Universal AC input (up to 295VAC) / Full range
- Protections:
 - Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- IP67/IP65 design for indoor or outdoor installations (except for C type)
- Output current adjustable through output cable or internal potentiometer (CLG-150)
- · Class 2 power unit / Pass LPS (CLG-60&100)

INPUT

- · Cooling by free air convection
- · Suitable for LED lighting, street lighting and moving sign applications

CLG-60

- Built-in constant current limiting circuit (C.V.+C.C. mode)
- Meet 4KV surge immunity level (IEC 61000-4-5)
- · Multiple models for CLG-150:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

CLG-150

B-Type: IP67 rated. Constant current level adjustable through output cable

C-Type: Non IP. Terminal block for I/O connection Blank-Type: IP67 rated. Cable for I/O connection

· 3 years warranty

	ОИТРИТ	Class 2	Class 2	A B C Blank	
AC input volta	ige range	90~295VAC; 127~417	VDC		
AC inrush curi	rent (max.)	Cold start, 40A at 230'	VAC	Cold start, 65A at 230VAC	
DC adjustmen	t range	Fixed. Can be modified to or 85%~100% (CLG-100)	petween 90%~110% (CLG-60) rated output voltage	A and C type can be adjusted by internal potentiometer	
Current adjustment range Fixed. Can be modified between 75%~103% rated output current		Can be adjusted by internal potentiometer (A and C type) or through output cable (B type)			
Over current protection 95%~110% constant current, auto-recovery 95%~102% constant 95%~108% constant current limiting, auto-recovery		95%~108% constant current limiting, auto-recovery			
Over voltage protection 110%~140%			107%~135%	110%~142% rated output voltage	
Setup, rise, ho	old up time	3000ms(setup time), no hold up time	1200ms, 80ms, 60ms at full load and 230VAC	3000ms, 80ms, 50ms at full load and 230VAC	
Withstand volt	tage	I/P-O/P: 3.75kVAC, I/I	P-FG: 1.88kVAC, O/P-FG: 0	.5kVAC	
Working temp	erature	-30~+70°C (refer to o	utput derating curve)		
Safety standards		UL1310, UL8750, UL EN61347-2-13, PSE JI J61347-2-13(option, CLG-100-36/48 only) TUV EN60950-1 for (CLG-60-20~48 & approved;	UL60950-1, UL1012, UL8750, TUV EN60950-1, EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13(option, except for CLG-150 C-type) approved	
EMC standards	S	EN55015, EN55022 cla	ass B, EN61000-3-2 class C,	EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
	Input	UL rated, SJTW 18AW0	Gx3C (30cm)	UL rated, SJTW 18AWGx3C (30cm); Terminal block for C type	
Connection	Output	UL rated, SVT 18AWG	x2C (30cm)	☐ = A & Blank type: SJTW 14AWGx2C (30cm) ☐ = B type: SJTW 14AWGx2C (30cm)+18AWGx2C (30cm) ☐ = C type: Terminal block	
Dimension (Lx	(WxH)(mm)	195.6x 61.5x 38.8	222.2x 68x 38.8	A/B/Blank-Type: 222.2x 68x 38.8; C-Type: 229x 68x 38.8	
Packing		0.86kg; 16pcs / 14.8kg	1.0kg; 12pcs / 13kg	1.0kg; 12pcs / 13kg	

CLG-60 Seri	es PM for	48V only) c TUS (for		E CBCE
Model No.	Output	Tol.	R&N	Effi.
★ CLG-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
CLG-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
CLG-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
★ CLG-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
CLG-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
CLG-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
★ CLG-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

CLG-100 Ser	ries 🗭 和 (for	48V only) c 11 US (fo	r 12~36V)	≜ © CBC€
Model No.	Output	Tol.	R&N	Effi.
★CLG-100-12	12V, 0~5.00A	±3%	150mV	83.0%
CLG-100-15	15V, 0~5.00A	±3%	150mV	85.5%
CLG-100-20	20V, 0~4.80A	±3%	150mV	88.5%
★CLG-100-24	24V, 0~4.00A	±3%	150mV	88.5%

Model No.	Output	Tol.	R&N	Effi.
CLG-100-27	27V, 0~3.55A	±3%	150mV	88.0%
CLG-100-36	36V, 0~2.65A	±2%	150mV	88.0%
★CLG-100-48	48V, 0~2.00A	±2%	200mV	88.5%

PAL A CBCE

CFG-120 Selle	25		(optio	
Model No.	Output	Tol.	R&N	Effi.
★ CLG-150-12 A	12V, 0~11.0A	±2%	150mV	88%
CLG-150-15 A	15V, 0~9.50A	±2%	150mV	88%
CLG-150-20 A	20V, 0~7.50A	±2%	150mV	90%
★ CLG-150-24 A	24V, 0~6.30A	±1%	150mV	90%
CLG-150-30 A	30V, 0~5.00A	±1%	150mV	91%
★ CLG-150-36 A	36V, 0~4.20A	±1%	150mV	91%
★ CLG-150-48 A	48V. 0~3.20A	±1%	200mV	91%

 \square = A, B, C or blank

★CLG-60-12/24/48, CLG-100-12/24/48 & CLG-150-12A/24A/36A/48A are our popular models. We will keep sufficient stock for prompt delivery of high quantity orders.

HLG series

40~60W High Efficiency Class 2 with PFC

Features

- Universal AC input (up to 305VAC) / Full range
- Protections:
- Short circuit / Over current / Over voltage / Over temperature
- Built-in active PFC, PF>0.9 for 60% of load or higher
- High efficiency up to 90.5%
- IP67 / IP65 design for indoor or outdoor installations
- Output current adjustable through output cable or internal potentiometer
- · Cooling by free air convection
- · Suitable for dry, damp and wet location
- · Suitable for LED lighting and street lighting applications

- Meet 4KV surge immunity level (IEC61000-4-5)
- ·Class 2 power unit
- Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

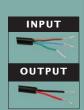
B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)

Blank-Type: IP67 rated. Cable for I/O connection

D-Type(option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

• 5 years warranty

HLG-40H/60H











_		
AC input voltag	e range	90~305VAC ; 127~431VDC
AC inrush curre	nt (max.)	Cold start, 70A at 230VAC
DC adjustment	range	±10% rated output voltage (A-Type only)
Current adjustn	nent range	60%~100% rated output current adjustable by internal potentiometer or through output cable
Over current pr	otection	95%~108% constant current limiting, auto-recovery
Over voltage pr	otection	109%~145% rated output voltage, shut off, re-power on to recover
Setup, rise, hold up time		1000ms, 80ms, 16ms at full load and 230VAC
Withstand voltage		I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG:0.5kVAC
Working temper	rature	-40~+70°C (refer to output derating curve)
Safety standards		UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; Design refer to UL60950-1, EN60950-1, EN60335-1
EMC standards		EN55015, EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
Input		UL rated, SJTW 18AWGx3C (30cm)
Connection	Output	A/D/Blank-Type: SVT 18AWGx2C (30cm); B-Type: SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)
Dimension (LxW	/xH) (mm)	171x 61.5x 36.8

HLG-40H Series	(for 48V/54V)	c 711 us (for 12~42V		CB (e
Model No.	Output	Tol.	R&N	Effi.
HLG-40H-12(A)	12V, 0~3.33A	±2.5%	150mV	86.5%
HLG-40H-15 (A)	15V, 0~2.67A	±2.0%	150mV	86.5%
HLG-40H-20A	20V, 0~2.00A	±1.0%	150mV	88.0%
HLG-40H-24A	24V, 0~1.67A	±1.0%	200mV	88.0%
HLG-40H-30(A)	30V, 0~1.34A	±1.0%	200mV	88.5%
HLG-40H-36A	36V, 0~1.12A	±1.0%	200mV	88.5%
HLG-40H-42 (A)	42V, 0~0.96A	±1.0%	200mV	88.5%
HLG-40H-48(A)	48V, 0~0.84A	±1.0%	300mV	89.5%
HLG-40H-54(A)	54V, 0~0.75A	±1.0%	300mV	89.5%

 \bigcirc = A, B, D or Blank

HLG-60H Series (R) A (for 48V/54V) CAUS (for 15-42V) (A C C BCE						
Model No.	Output	Tol.	R&N	Effi.		
HLG-60H-15 (A)	15V, 0~4.0A	±2.0%	150mV	87.5%		
HLG-60H-20(A)	20V, 0~3.0A	±1.0%	150mV	89.0%		
HLG-60H-24(A)	24V, 0~2.5A	±1.0%	150mV	89.5%		
HLG-60H-30(A)	30V, 0~2.0A	±1.0%	200mV	90.0%		

Model No.	Output	Tol.	R&N	Effi.
HLG-60H-36 (A)	36V, 0~1.70A	±1.0%	200mV	90.0%
HLG-60H-42 (A)	42V, 0~1.45A	±1.0%	300mV	90.0%
HLG-60H-48 (A)	48V, 0~1.30A	±1.0%	300mV	90.5%
HLG-60H-54 (A)	54V, 0~1.15A	±1.0%	300mV	90.5%

 \bigcirc = A, B, D or Blank

> Junction Box for HLG Series



- Optional junction box available for HLG-80H~320H series (A/Blank-Type only). Please contact MEAN WELL for details.
- "UL8750 listed" safety & IP66 approved for HLG-80H- BL

- Universal AC input (up to 305VAC) / Full range
- · Protections:
- Short circuit / Over current / Over voltage / Over temperature
- · Built-in active PFC, PF>0.9 for 60% of load or higher
- · IP67 / IP65 design for indoor or outdoor installations
- · Output current adjustable through output cable or internal potentiometer
- · Cooling by free air convection
- Suitable for dry, damp and wet location
 Suitable for LED lighting and street lighting applications
- Meet 4KV surge immunity level (IEC61000-4-5)
- · Class 2 power unit / Pass LPS (except for HLG-120H)

· Multiple models for choice:

A-Type: IP65 rated. Output and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC, PWM signal, or resistance)

Blank-Type: IP67 rated. Cable for I/O connection
BL-Type(option): for HLG-80H only, "UL8750 listed" safety
& IP66 approved, contact MEAN WELL for details
D-Type(option): IP67 rated. Timer dimming function, contact
MEAN WELL for details

· Optional CQC models available (HLG-100H/120H-A/Blank type)

HLG-80H

HLG-100H/HLG-120H













AC input voltag	ge range	90~305VAC, 127~431VDC				
AC inrush curre	ent (max.)	Cold start, 70A at 230VAC	Cold start, 75A at 230VAC			
DC adjustment	range	±10% rated output voltage (A Type only)				
Current adjustr	nent range	60%~100% rated output current adjustable by ir	nternal potentiometer or through output cable			
Over current pr	otection	95%~108% constant current limiting, auto-reco	very			
Over voltage pi	rotection	110%~140% rated output voltage				
Setup, rise, hol	d up time	1000ms, 80ms, 16ms at full load and 230VAC	2500ms, 50ms, 16ms at full load and 230VAC			
Withstand volta	ige	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG:0.5kVAC				
Working tempe	rature	-40~+70°C (refer to output derating curve)				
Safety standard	ls	UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 approved; UL8750 listed for HLG-80H-□BL only; Design refer to UL60950-1, EN60950-1				
EMC standards		EN55015, EN55022 class B (except for HLG-80H), EN61000-3-2 class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547				
Input		UL rated, SJTW 18AWGx3C (30cm)				
Connection	Output	A/D/Blank-Type: SVT 18AWGx2C (30cm); B-Type: SVT 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)	A/D/Blank-Type: SJTW 14AWGx2C (30cm); B-Type: SJTW 14AWGx2C (30cm)+SJTW 18AWGx2C (30cm)			
Dimension (LxWxH) (mm)		195.6x 61.5x 38.8	220x 68x 38.8			

A CB(f

HLG-80H Series	(for 48V/54V)	c US (for 12~42V)	(for 48/54BL) c	Us (for 12~42BL)
Model No.	Output	Tol.	R&N	Effi.
HLG-80H-12(A)	12V, 0~5.0A	±2.5%	150mV	88.0%
HLG-80H-15 (A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HLG-80H-20A	20V, 0~4.0A	±1.0%	150mV	90.0%
HLG-80H-24A	24V, 0~3.4A	±1.0%	150mV	90.5%
HLG-80H-30A	30V, 0~2.7A	±1.0%	200mV	91.0%
HLG-80H-36(A)	36V, 0~2.3A	±1.0%	200mV	91.0%
HLG-80H-42 (A)	42V, 0~1.95A	±1.0%	200mV	91.0%
HLG-80H-48A	48V, 0~1.7A	±1.0%	200mV	91.0%
HLG-80H-54(A)	54V, 0~1.5A	±1.0%	200mV	91.0%

 \bigcirc = A , B, BL, D or Blank

HLG-100H Ser	ies 🕝	c 711 us	1904 FT 1914	CRCE
Model No.	Output	Tol.	R&N	Effi.
HLG-100H-20@	20V, 0~4.8	A ±1.0%	150mV	93%
HLG-100H-24@	24V, 0~4.0	A ±1.0%	150mV	93%
HLG-100H-30@	30V, 0~3.2	A ±1.0%	200mV	93%
HLG-100H-36	36V, 0~2.6	5A ±1.0%	200mV	93%

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-42 (A)	42V, 0~2.28A	±1.0%	200mV	93%
HLG-100H-48 (A)	48V, 0~2.0A	±1.0%	200mV	93%
HLG-100H-54 (A)	54V, 0~1.77A	±1.0%	200mV	93%

P BI A CRC

HLG-120H Series	FC c	7 Us		CDCE
Model No.	Output	Tol.	R&N	Effi.
★ HLG-120H-12 (A)	12V, 0~10A	±2.5%	150mV	92.0%
HLG-120H-15 (A)	15V, 0~8.0A	±2.0%	150mV	92.0%
HLG-120H-20 (A)	20V, 0~6.0A	±1.0%	150mV	93.0%
★ HLG-120H-24 A	24V, 0~5.0A	±1.0%	150mV	93.0%
HLG-120H-30 (A)	30V, 0~4.0A	±1.0%	200mV	93.0%
HLG-120H-36 (A)	36V, 0~3.4A	±1.0%	200mV	93.0%
HLG-120H-42 (A)	42V, 0~2.9A	±1.0%	200mV	93.0%
★ HLG-120H-48 倒	48V, 0~2.5A	±1.0%	200mV	93.5%
HLG-120H-54 (A)	54V, 0~2.3A	±1.0%	200mV	93.5%

★ HLG-120H-12A/24A/48A are our popular models. We will keep



- · Universal AC input (up to 305VAC) / Full range
- · Protections:
- Short circuit / Over current / Over voltage / Over temp.
- · Built-in active PFC, PF>0.9 for 60% of load or higher
- IP67 / IP65 design for indoor or outdoor installations (except for C-Type)
- · Output current adjustable
- · Cooling by free air convection
- Suitable for LED lighting and street lighting applications
- Meet 4KV surge immunity level (IEC61000-4-5)

- Multiple models for choice:
- A-Type: IP65 rated. Output and voltage constant current level can be
 - adjusted through internal potentiometer
- B-Type: IP67 rated and built-in 3 in 1 dimming function (1~10VDC,
- C-Type: Terminal block for I/O connection (HLG-240H/320H)
- Blank-Type: IP67 rated. Cable for I/O connection
- D-Type(option): IP67 rated. Timer dimming function, contact
 MEAN WELL for details
- Optional CQC models available (HLG-150H/185H/240H-A/Blank-Type)

HLG-240H HLG-150H/185H HLG-320H INPUT B Blank/D OUTPUT

			3	(HLG-240H/320H)		
AC input volta	ige range	90~305VAC, 127~431VDC				
AC inrush cur						
DC adjustment range ±10% rated output voltage ±6% rated output voltage						
Current adjust	ment range	60%~100% rated out	put current adjustable by internal pote	ntiometer or through output cable		
Over current protection 95%~108% constant current limiting, auto-recovery						
Over voltage	orotection	110%~140% rated ou	itput voltage			
Setup, rise, ho	old up time	2500ms, 80ms, 16ms	2500ms, 80ms, 15ms at full load and	230VAC		
Withstand vol	Withstand voltage I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC					
Working temp	erature	-40~+70°C (refer to	output derating curve)			
Safety standar	Safety standards UL8750, TUV EN61347-1, EN61347-2-13, PSE J61347-1, J61347-2-13 (except for C-Type) approved UL1012, UL60950-1, TUV EN60950-1 approved for HLG-240H only					
EMC standard	S	EN55015, EN55022 cl	ass B, EN61000-3-2 class C, EN61000-3-3,	EN61000-4-2,3,4,5,6,8,11, EN61547		
	Input	UL rated, SJTW 18AW	/Gx3C (30cm); Terminal block for C-Typ	oe (HLG-240H/320H only)		
Connection	Connection A & Blank-Type: SJTW 14AWGx2C (30cm); B-Type: SJTW 14AWGx2C (30cm)+SJTW 18AWGx2C (30cm);					
Output C-Type: Terminal block (HLG-240H/320H)						
Dimension (L)	(My H) (mm)	A/B/D/Blank-Type:	A/B/D/Blank-Type: 244.2x 68x 38.8	A/B/D/Blank-Type: 252x 90x 43.8		
Dimension (Lx	(wxn)(mm)	228x 68x 38.8	C-Type: 251x 68x 38.8	C-Type: 256x 90x 43.8		

Dimension ((LxWxH)(mm)

HI G-150H Series

P	511 us [CB (E	
	7.1	1400	E.C.	

TIEG TOOTT SETTES		03	(AGENTA)	
Model No.	Output	Tol.	R&N	Effi.
HLG-150H-12 (A)	12V, 0~12.5A	±2.5%	150mV	91.5%
HLG-150H-15 (A)	15V, 0~10.0A	±2.0%	150mV	92.0%
HLG-150H-20 (A)	20V, 0~7.50A	±1.0%	150mV	93.0%
HLG-150H-24(A)	24V, 0~6.30A	±1.0%	150mV	93.0%
HLG-150H-30 (A)	30V, 0~5.00A	±1.0%	200mV	93.5%
HLG-150H-36 (A)	36V, 0~4.20A	±1.0%	200mV	93.5%
HLG-150H-42 (A)	42V, 0~3.60A	±1.0%	200mV	94.0%
HLG-150H-48 (A)	48V, 0~3.20A	±1.0%	200mV	94.0%
HLG-150H-54(A)	54V, 0~2.80A	±1.0%	200mV	94.0%

HLG-185H Series		c 712 us 🙆	inner p	CB (E
Model No.	Output	Tol.	R&N	Effi.
★HLG-185H-12 (A)	12V, 0~13.0A	±2.5%	150mV	91.5%
HLG-185H-15 (A)	15V, 0~11.5A	±2.0%	150mV	92.0%
HLG-185H-20 (A)	20V, 0~9.30A	±1.0%	150mV	93.0%
★HLG-185H-24A	24V, 0~7.80A	±1.0%	150mV	93.5%
HLG-185H-30 (A)	30V, 0~6.20A	±1.0%	200mV	93.5%
HLG-185H-36 (A)	36V, 0~5.20A	±1.0%	200mV	93.5%
HLG-185H-42 (A)	42V, 0~4.40A	±1.0%	200mV	94.0%
★HLG-185H-48 (A)	48V, 0~3.90A	±1.0%	200mV	94.0%
HLG-185H-54(A)	54V, 0~3.45A	±1.0%	200mV	94.0%

 \bigcirc = A , B , D or Blank

HLG-240H Series		c Us 💟		CDCC
Model No.	Output	Tol.	R&N	Effi.
★HLG-240H-12 (A)	12V, 0~16.0A	±2.5%	150mV	90.0%
HLG-240H-15 (A)	15V, 0~15.0A	±2.0%	150mV	90.0%
HLG-240H-20 (A)	20V, 0~12.0A	±1.0%	150mV	92.0%
★HLG-240H-24A	24V, 0~10.0A	±1.0%	150mV	93.0%
HLG-240H-30A	30V, 0~8.00A	±1.0%	200mV	93.0%
HLG-240H-36 (A)	36V, 0~6.70A	±1.0%	250mV	93.0%
HLG-240H-42 (A)	42V, 0~5.72A	±1.0%	250mV	93.0%
★HLG-240H-48 (A)	48V, 0~5.00A	±1.0%	250mV	93.5%
HLG-240H-54A	54V, 0~4.45A	±1.0%	350mV	94.0%

P BI PROCECT

 \bigcirc = A, B, C, D or Blank

HLG-320H Series		911 us 鱼		CB (€
Model No.	Output	Tol.	R&N	Effi.
HLG-320H-12 (A)	12V, 0~22.0A	±3.0%	150mV	91.0%
HLG-320H-15 (A)	15V, 0~19.0A	±2.0%	150mV	92.5%
HLG-320H-20 (A)	20V, 0~15.0A	±1.5%	150mV	93.5%
HLG-320H-24A	24V, 0~13.34A	±1.0%	150mV	94.0%
HLG-320H-30 (A)	30V, 0~10.7A	±1.0%	200mV	94.0%
HLG-320H-36(A)	36V, 0~8.90A	±1.0%	250mV	94.5%
HLG-320H-42 (A)	42V, 0~7.65A	±1.0%	250mV	95.0%
HLG-320H-48 (A)	48V, 0~6.70A	±1.0%	250mV	95.0%
HLG-320H-54(A)	54V, 0~5.95A	±1.0%	350mV	95.0%

 \bigcirc = A , B , C , D or Blank

series

96~150W Wide Input Range with PFC

Features

- Wide input range: $180 \sim 480 \text{VAC}$ for HVG(C)-100180~528VAC for HVG(C)-150
- Protections: Short circuit / Over voltage / Over temperature / Over current (HVG-100/150)
- · Built-in active PFC
- · High efficiency up to 91%
- · IP67 / IP65 design
- · Cooling by free air convection
- · C.V. +C.C. mode design (HVG-100/150)
- Constant current design (HVGC-100/150)
- · Output current adjustable through output cable or internal potentiometer

- · Class 2 power unit / Pass LPS for HVG-100
- · Suitable for dry, damp and wet location
- · Suitable for LED lighting and street lighting applications
- · Multiple models for choice:

A-Type: IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer

B-Type: IP67 rated and built-in 3 in 1 dimming function

D-Type (option): IP67 rated. Timer dimming function, contact MEAN WELL for details.

• 5 years warranty

HVG/HVGC-100



HVG/HVGC-150

AC input voltage range 180~480VAC(single phase); 254~679VDC 180~528VAC (single phase); 25					
AC inrush curre	nt (max.)	Cold start, 50A / 440VAC	Cold start, 55A / 480VAC		
DC adjustment range ±10% rated output voltage					
Current adjustn	nent range	HVG-100/150: 55%~100%; HVGC-100/150: 60%~	100%		
Over current	Range	95%~108%			
protection	Type	Constant current limiting, recovers automatically	after fault is removed		
Over voltage pr	otection	110%~140% rated output voltage, shut down o/p vo	Itage with auto-recovery or re-power on to recovery		
Withstand volta	nstand voltage I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC				
Working tempe	rature	-40~+70°C (refer to output derating curve)			
Safety standard	5	HVG-100: UL8750 approved (HVG-150 pending)			
Safety Standard	5	HVGC-100: UL8750, TUV EN61347-1, EN61347-2	-13 approved (HVGC-150 pending)		
		EN55015, FCC part 15 class B,	Design refer to EN55015, FCC part 15 class B,		
EMC standards		EN61000-3-2 class C, EN61000-3-3,	EN61000-3-2 Class C, EN61000-3-3,		
		EN61000-4-2,3,4,5,6,8,11, EN61547	EN61000-4-2,3,4,5,6,8,11, EN61547		
	Input	UL rated, STW 18AWGx3C (30cm)			
Connection		A&D-Type: SVT 18AWGx2C (30cm)	A&D-Type: STW 18AWGx2C (30cm)		
Connection	Output	B-Type: SVT 18AWGx2C (30cm)+	B-Type: STW 18AWGx2C (30cm)+		
		UL2517 18AWGx2C (30cm)	UL2517 18AWGx2C (30cm)		
Dimension (LxV	VxH)(mm)	236x 68x 38.8	246x 68x 38.8		

HVG-100 Series (C.V. +C.C. mode)



		(101 42-344) (101	13-304)	
Model No.	Output	Tol.	R&N	Effi.
HVG-100-15(A)	15V, 0~5.0A	±2.0%	150mV	89.0%
HVG-100-20(A)	20V, 0~4.8A	±1.0%	150mV	90.0%
HVG-100-24(A)	24V, 0~4.0A	±1.0%	150mV	91.0%
HVG-100-30(A)	30V, 0~3.2A	±1.0%	200mV	91.0%
HVG-100-36(A)	36V, 0~2.65A	±1.0%	200mV	90.5%
HVG-100-42(A)	42V, 0~2.28A	±1.0%	200mV	90.5%
HVG-100-48(A)	48V, 0~2.0A	±1.0%	200mV	91.0%
HVG-100-54(A)	54V, 0~1.77A	±1.0%	200mV	91.0%

HVG-150 Series (C.V. +C.C. mode)

HVG-150 Series	(C.V. +C.C. mode)	Pu	IL/CUL/FC	pending
Model No.	Output	Tol.	R&N	Effi.
HVG-150-12A	12V, 0~10A	±2.5%	150mV	87%
HVG-150-15A	15V, 0~10A	±2.0%	150mV	88%
HVG-150-20A	20V, 0~7.5A	±1.0%	150mV	89%
HVG-150-24A	24V, 0~6.25A	±1.0%	150mV	90%
HVG-150-30A	30V, 0~5A	±1.0%	200mV	90%
HVG-150-36A	36V, 0~4.17A	±1.0%	200mV	90%
HVG-150-42(A)	42V, 0~3.58A	±1.0%	200mV	90%
HVG-150-48(A)	48V, 0~3.13A	±1.0%	200mV	90%
HVG-150-54A	54V, 0~2.78A	±1.0%	200mV	91%

 \bigcirc = A , B or D



Model No.	Output	Io Tol.	R&N	Effi.
HVGC-100-350 (A)	3~285V, 350mA	±5%	1V	91%
HVGC-100-700 (A)	3~142V, 700mA	±5%	0.5V	91%

 \bigcirc = A , B or D

HVGC-150 Series (C.C. mode) FUL/CUL/TUV/CB/FCC/CE pending

Model No.	Output	Io Tol.	R&N	Effi.
HVGC-150-350A	3~428V, 350mA	±5%	1.50V	91%
HVGC-150-500(A)	3~300V, 500mA	±5%	1.00V	90%
HVGC-150-700A	3~215V, 700mA	±5%	0.75V	90%
HVGC-150-1050A	3~143V, 1050mA	±5%	0.50V	89%
HVGC-150-1400A	3~107V, 1400mA	±5%	0.50V	89%

70~150W Single Output with PFC

70W Rectangular Metal Case

®(€



- Universal AC input (up to 305VAC)
- · Protections:

Short circuit / Over current / Over voltage / Over temperature

- · Built-in active PFC
- · OCP point adjustable through internal potentiometer
- · IP65 design
- · Cooling by free air convection
- · Suitable for LED lighting and moving sign applications
- · 3 years warranty

AC input voltag	je range	90~305VAC; 127~431VDC		
Current adjustment		60%~100% rated output current		
range		adjustable by internal potentiometer		
Over current pr	otection	95%~108% constant current limiting		
Over voltage pr	rotection	112%~140% rated output voltage		
NA/Sala as a sala sala as a		I/P-O/P: 3.75kVAC,		
Withstand volta	ige	I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC		
Working tempe	rature	-40~+70°C (refer to output derating curve)		
Safety standard	ls	Design refer to EN61347-1, EN61347-2-13		
		EN55015, EN61000-3-2 class C,		
EMC standards		EN61000-3-3, EN61547,		
		EN61000-4-2,3,4,5,6,8,11		
Campantian	Input	H05RN-F 1.5mm ² x2C (30cm)		
Connection	Output	H05RN-F 1.0mm ² x3C (30cm)		

Model No.	Output	Tol.	R&N	Effi.
HSG-70-12	12V, 0~5.0A	±2.5%	150mV	88%
HSG-70-18	18V, 0~4.0A	±2.0%	200mV	89%
HSG-70-24	24V, 0~3.0A	±1.0%	200mV	89%
HSG-70-36	36V, 0~2.0A	±1.0%	200mV	90%
HSG-70-48	48V, 0~1.5A	±1.0%	200mV	90%

150W U-Bracket Single Output with PFC





- Built-in active PFC function
- ·High efficiency up to 93%
- · Protections:
- Short circuit / Overload / Over voltage / Over temperature

·Universal AC input (up to 295VAC)

- ·Cooling by free air convection
- ·U-bracket low profile: 33mm
- · 3 years warranty

AC input voltage range	90~295VAC; 127~417VDC
AC inrush current (max.)	Cold start, 65A at 230VAC
Overload protection	130%~185% hiccup mode, auto-recovery
Over voltage protection	110%~135% hiccup mode, auto-recovery
Setup, rise, hold up time	2000ms, 100ms, 16ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 1.88kVAC, O/P-FG: 0.5kVAC
Working temperature	-30~+70°C (refer to output derating curve)
Safety standards	Design refer to UL8750, EN61347-1, EN61347-2-13
EMC standards	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11

Model No.	Output	Tol.	R&N	Effi.
ULP-150-12	12V, 0~12.5A	±2%	100mV	91.5%
ULP-150-15	15V, 0~10.0A	±2%	150mV	91.5%
ULP-150-24	24V, 0~6.30A	±2%	150mV	93.0%
ULP-150-36	36V, 0~4.20A	±2%	250mV	93.0%
ULP-150-48	48V, 0~3.20A	±2%	250mV	93.0%

> Female Waterproof Output Connector (Power supply side)

Waterproof	Pin Configuration (Female)								
Connector		M	12		М	15	M2	0.5	M20.8
	(0 0)	Order No. : M12-02	000	Order No. : M12-04	(0 0)	Order No. : M15-02	(0 0)	Order No. : M20.5-02	Order No. : M20.8-02
	2-pin (5A/PIN)	Suitable Current : 5A max.	4-pin (5A/PIN)	Suitable Current : 10A max.	2-pin (12A/PIN)	Suitable Current : 12A max.	2-pin (20A/PIN)	Suitable Current : 20A max.	Suitable Current : 20A max.

- ► The output cable can be modified to include different waterproof connectors by MEAN WELL. Minimum order quantity may vary for different models.
- We would suggest you to order the configurations of "M15 connector with length of 20cm/ 30cm/ 45cm/ 60cm/ 80cm/ 100cm cost effectiveness and fast delivery. Ordering other connector type or cable lengths will have higher cost and longer lead-time.
 Suitable for CLG / HLG / HVG(C) / HSG / HLN / LPF series. 100cm cables" due to its

Male Waterproof Output Connector with Cable (System side)



► MEAN WELL offers male waterproof connectors with cable length of 30cm, 60cm, and 100cm as our standard mating accessories. These mating accessories need to be ordered together with PSU. For other length or cable style, the higher MOQ requirement and long lead-time will be expected. Please consult MEAN WELL for details.

Order No.



	No. of P	IN	
(2)	2P	4P	M15, M20.5 and M20.8 only
•	2pin	4pin	have 2-pin choice

Male (System Side) Female (PSU Side)

	Cable Length: Male with Cable									
	4	30		60	100					
	•	30cn	n (60cm	100ci	m				
_	Cable Length: Female with Cable									
П		20	30	45	60	80	100			
1		20cm	30cm	45cm	60cm	80cm	100cm			

	Cable Type	
(5)	Ul	El
9	SJTW (USA)	H05RN-F (EURO)
	Brand Name	
6	UN	СН
6		CH CHOGORI

LD V series

Welcome Back

185W Multiple Channel Output with PFC

LDV-185



Features

- · 180~295VAC input range
- 6CH/700mA or 12CH/350mA constant current output
- · Built-in active PFC
- Protections: Short circuit / Over voltage / Over temp.
- Meet 4KV surge immunity level(EN61000-4-5)
- · Cooling by free air convection
- IP67 design for indoor or outdoor installations
- · Suitable for LED lighting and moving sign applications
- · Multiple models for choice:

Blank-Type: IP67 rated. No timer dimming function **D-Type(option)**: IP67 rated. Timer dimming function,

please contact MEAN WELL for details.

CA-Type(option): IP67 rated. Including PSU mating accessory, please contact MEAN WELL for details.

· 3 years warranty

AC input voltage range		180~295VAC; 254~417VDC			
AC inrush current		Cold start, 60A at 230VAC			
Over voltage protection		A: 41~50V, B: 47~50V, C: 54~63V			
Working temperature		30~+70°C (refer to output derating curve)			
Safety standards		Design refer to UL8750, EN61347-1, EN61347-2-13			
EMC standards	;	EN55015, EN61000-3-2 class C, EN61000-3-3, EN61547, EN61000-4-2,3,4,5,6,8,11			
	Input	H05BN4-F 1.0mm ² x3C (30cm)			
Connection	Output	6 CH: 22AWGx16C (15cm) with one connector 12CH: 22AWGx12C/16C (15cm) with two connectors			
Dimension (Lx)	WxH)(mm)	222.2x 90x 38.8			

P(E

Model No.	Output	Channel	Io Tol.	Effi.	Max.
_DV-185-350A 🗌	30~35V, 350mA		±5%	88%	147W
_DV-185-350B 🗌	35~40V, 350mA	12CH	±5%	88%	168W
DV-185-350C	40~48V, 350mA		±5%	88%	185W

= Blank, D or CA

Madal Na Ou

Model No.	Output	Channel	Io Tol.	Effi.	Max.
LDV-185-700A	30~35V, 700mA		±5%	88%	147W
LDV-185-700B	35~40V, 700mA	6CH	±5%	88%	168W
LDV-185-700C	40~48V, 700mA		±5%	88%	185W

P(E

 \square = Blank. D or CA

> To design a LED street lamp, what solution can MEAN WELL offer?

HLG-185 LDV-185 HLG-185+LDD Direct Drive Multiple Channel C.C. Output AC/DC PSU+DC/DC Driver ♦ **HLG-185 ⊕** HLG-185 **LDV-185 ♦ •** • • • • 6CH/12CH LDD LDD LDD LDD ■ Built-in DC/DC driver ICs in LDV-185 Lowest price Higher price Independent C.C. output, balanced Simplest design • Each channel need to have the same • Failure in any string will affect other LED quantity current in each string Balanced current supply Additional mounting space for LDD is Unbalanced current in each Lower price required string ▶ Please refer to http://www.meanwell.com/product/led/led.html for more detail information.

LDD series / SPD-20 DC/DC Constant Current LED Driver/ Surge Protection Device

► Features

- ·Constant current LED driver
- ·Wide input and output voltage range
- ·High efficiency up to 97%
- Comply with EN55015 and FCC part 15 without additional input filter and capacitors
- ·Built-in PWM dimming and remote ON/OFF control
- Protections: Short circuit / Over temperature

- Compact size
- •Operating temperature range: -40~+85°C
- ·Cooling by free air convection
- •Fully enclosed plastic case (UL 94V-0)
- ·Low cost, high reliability
- ·3 years warranty

LDD-H / LDD-HW





Output Curre	nt Accuracy	cy ±3% at 24VDC input; ±4% at 48VDC input ±5% at 24VDC input					
PWM Dimming & ON/OFF Control		Leave open if not used					
	Remote ON/OFF	Power ON with dimming: DIM~-Vin>2.5~6VDC or open circuit Power OFF: DIM~-Vin <0.5VDC or short	Power ON with dimming: DIM~-Vin>3.5~8VDC or open circuit Power OFF: DIM~-Vin <0.5VDC or short				
	PWM Frequency	100~1KHz	00~1KHz				
Short circuit	Range	Regulated at rated output current					
Short circuit	Type	Can be continued, recovers automatically after fault condition is removed					
Over temp.	Range	Tj 150°C typically detect on main control IC					
protection	Туре	Shut down, recovers automatically after temperature goes down					
Working temp	perature	-40~+85°C (refer to output derating curve)	out derating curve)				
EMC standard	ls	Compliance to EN55015, FCC part 15 class B, EN61000-4-2,3,4,6,8, light industry level, criteria A					
Operating cas	se temp. (max.)	100°C					
Dimension (L:	xWxH)(mm)	31.8x 20.3x 12.2	22.6x 9.9x 8.9				

FCCE

FC	(ϵ

	Input	Out	put		Effi.	
Model No.	(VDC)	Voltage (VDC)	Current (mA)	Io Tol.		
LDD-300H 🗆	9~56	2~52	300	±4%	97%	
LDD-350H 🗌	9~56	2~52	350	±4%	97%	
LDD-500H 🗆	9~56	2~52	500	±4%	97%	
LDD-600H	9~56	2~52	600	±4%	97%	
LDD-700H 🗌	9~56	2~52	700	±4%	97%	
LDD-1000H	9~56	2~52	1000	±4%	97%	

- Dialik, W	yle, W: wire style

	Input	Out	put		Effi.	
Model No.	(VDC)	Voltage (VDC)	Current (mA)	Io Tol.		
LDD-300L	9~36	2~32	300	±5%	95%	
LDD-350L	9~36	2~32	350	±5%	95%	
LDD-500L	9~36	2~32	500	±5%	95%	
LDD-600L 🗌	9~36	2~32	600	±5%	95%	
LDD-700L 🗆	9~36	2~32	700	±5%	95%	
	D1 1					

 $[\]square$ = Blank, W; Blank: pin style, W: wire style

20kA Surge Protection Device



Features

- •Type 2 component assemblies
- ·Line to Ground & Line to Line protected
- •Design refer to UL1449 3rd Edition
- •Parallel (3 wires) connection style
- ·LED status indicator
- ·IP67 design
- ·Suitable for surge protection of
- LED drivers

UL/TUV/CE pending

Model No.	SPD-20-240P SPD-20-277P				
Operating voltage	240VAC, 50/60Hz 277VAC, 50/60Hz				
MCOV (Max. Continuous Operating Voltage)	300VAC	320VAC			
VPR (Voltage protection rating)	≤1200 (L-FG, N-FG, L-N)				
IN (Nominal Discharge Current)	5kA				
Max. Surge Current (8/20us)	20kA				
SCCR (Short Circuit Current Rating)	5kA				
Response time	<25ns				
Operating temperature	-40~+70°C				
Safety standard	Design refer to UL1449 3rd edition (Type 2 component assemblies), TUV EN61643-11				
Dimension (LxWxH)(mm)	90x 70x 50				

How to Choose A Suitable LED Power Supply?

- Decide a suitable wattage level, including safety margin.
- Verify your design of LED driving circuit: direct drive by PSU [choose a constant current (C.C.) mode LED power supply] or add additional driving IC to get a more precise constant current level [choose LDV-185 or LDD].
- Verify whether the application need PFC function.
- Verify location of assembly and the required level against dust and humidity for the LED power supply (enclosure style, IP level, dry/damp/wet location).
- Verify the required safety certificates.
- Need to adjust the output voltage and/or output current or need the dimming function?

➤ Suggested System Design

Setting	Circuit Diagram	Description	Advantage & Disadvantage		
Use constant current (C.C.) mode power supply only	+V(Red) AC/DC C.CV(Black) mode PSU 0.35A 0.35A	Using MEAN WELL's C.C. mode LED power supply as constant current source and feed the LED arrays directly.	Advantage • Simplest design, no need LED driver IC • Lowest price • Highest efficiency with the best lumen per watt(lm/w)		
	0.35A	MEAN WELL product: APC / LPC / ELN / PLN / PLC / LPF / HLN / PLD / CLG / CEN / HLG / HSG / HVG / HVGC / PLP / HLP / LCM families	Unbalanced driving current and shorter LED life time LED chips should be sorted for similar VF		
Use multiple channel C.C. mode power supply	Multiple channel LED PSU 0.35A 0.35A 0.35A 0.35A	Using multiple channel LED PSU with DC/DC constant current LED driver ICs built-in. Each LED strip can get balanced driving current. MEAN WELL product: LDV-185 series	Advantage Built-in driver ICs in the unit Moderate price Disadvantage Each channel need to have the same LED quantity Lower system efficiency comparing to the direct drive method		
Use constant voltage (C.V.) mode power supply with DC-DC LED driver	+V (Red) AC/DC C.V. mode LED PSU 0.35A +V Driver IC -V 0.35A +V Driver IC -V Driver IC -V	Using AC/DC C.V. mode LED power supply and separate DC/DC LED drivers. MEAN WELL product: LDD series	Advantage Independent output channels, the most balanced current for paralleled LED strips No need to sort the VF of LED Longer LED lifetime Failures in any string do not affect the other strings Disadvantage Higher price Complicated circuit design Lowest system efficiency Largest in power supply volume		

Quick Selection Map

Note At the moment of power on, the LED power supply will work in C.V. mode and can provide a peak output current; after the LED turns on, the LED power supply will go into C.C. mode (patent pending). Metal Case

Plastic Case

Voltage + Constant Current (C.V.+C.C.) Note

Constant

PCB Type

Non-PFC

Plastic Case

	Plastic Case	
Constant Current	PFC	
(C.C.)	Metal Case	
Constant	PFC U-bracket Metal Case	
Voltage (C.V.)	Non-PFC Plastic Case	

	Carriag	Dimension (Ly My II)	Dogo
	Series CEN-60/75	Dimension (Lx Wx H) 185x 62.5x 40.5 mm	Page
	CEN-100	195x 62.5x 40.5 mm	14
	Series	Dimension (Lx Wx H)	Page
Mary Prints	CLG-60	195.6x 61.5x 38.8 mm	rage
	CLG-100	222.2x 68x 38.8 mm	15
	CLG-150	229x 68x 38.8 mm	
	Series	Dimension (Lx Wx H)	Page
34	HLG-40H/60H	171x 61.5x 36.8 mm	16
- water (Colors and	HLG-80H HLG-100H/120H	195.6x 61.5x 38.8 mm 220x 68x 38.8 mm	17
	HLG-150H/185H	228x 68x 38.8 mm	18
	HLG-240H HLG-320H	251x 68x 38.8 mm 256x 90x 43.8 mm	18 18
-0	Series	Dimension (Lx Wx H)	Page
THE REAL PROPERTY.	HVG(C)-100	236x 68x 38.8 mm	
	HVG(C)-150	246x 68x 38.8 mm	19
	Series	Dimension (Lx Wx H)	Page
11/	HSG-70	127.2x 90x 38.8 mm	20
	Coming	Discourse (Los Massell)	D
	Series LPF-16(D)/25(D)	Dimension (Lx Wx H) 148x 40x 32 mm	Page
Carlo Carlo	LPF-40(D)/60(D)	162.5x 43x 32 mm	7
	LPF-90(D)	161x 61x 36 mm	
- Barrier	Series	Dimension (Lx Wx H)	Page
	PLC-30	160x 46x 30 mm	
4	PLC-45/60	181.5x 62x 35 mm	8
	PLC-100	200.5x 69.5x 35 mm	D
	Series PLN-20	Dimension (Lx Wx H) 148.5x 38.5x 28 mm	Page
The second second	PLN-30	145x 47x 30 mm	_
	PLN-45/60	181x 61.5x 35 mm	9
	PLN-100	200x 70.5x 35 mm	
-25	Series	Dimension (Lx Wx H)	Page
	HLN-40H/60H	161x 61.5x 35 mm	10
	HLN-80H	181x 61.5x 35 mm	
STA STEEL	Series PLP-20	Dimension (Lx Wx H)	Page
	PLP-30	101.6x 50.8x 26.6 mm	12
d 2	PLP-45/60	101.6x 50.8x 29.6 mm	
447	Series	Dimension (Ly Wy II)	Dago
ACC 201	Del les	Dimension (LX WX II)	raye
	HLP-40H/60H	Dimension (Lx Wx H) 147x 53x 27 mm	Page
No.			13
- Vie	HLP-40H/60H HLP-80H	147x 53x 27 mm 167x 53x 29.5 mm	13
	HLP-40H/60H HLP-80H Series APC-12/16	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm	13 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm	Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H)	13 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm	Page 1
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H)	Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm	Page 1
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm	Page 1
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm	Page 1 Page 3
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm	Page 1 Page 3 Page 4
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm	Page 1 Page 3 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm	Page 1 Page 3 Page 4
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm	Page 1 Page 3 Page 4 Page 5
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm	Page 1 Page 3 Page 4 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm	Page 3 Page 4 Page 5 6
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm	Page 1 Page 3 Page 4 Page 5
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm	Page 1 Page 3 Page 4 Page 5 6 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H)	Page 1 Page 3 Page 4 Page 5 6 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm Dimension (Lx Wx H)	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm	Page 1 Page 3 Page 4 Page 5 6 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm Dimension (Lx Wx H) 123.5x 79x 23 mm	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm Dimension (Lx Wx H)	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series LDV-185	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page 21
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series LCM-40/60 Series LDV-185	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm Dimension (Lx Wx H) 123.5x 79x 23 mm	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series LDV-185 Series ULP-150	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 123.5x 79x 23 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H)	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page 21 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series UN-185 Series ULP-150 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H) 215x 67.4x 33 mm	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page 21
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LCM-40/60 Series LDV-185 Series ULP-150 Series APV-12/16	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H) 225x 67.4x 33 mm Dimension (Lx Wx H) 215x 67.4x 33 mm	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page 21 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LDV-185 Series ULP-150 Series APV-12/16 APV-25/35	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H) 215x 67.4x 33 mm Dimension (Lx Wx H) 215x 67.4x 33 mm	Page 1 Page 4 Page 5 6 Page 11 Page 21 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LDV-185 Series ULP-150 Series APV-12/16 APV-25/35 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H) 2215x 67.4x 33 mm Dimension (Lx Wx H) Dimension (Lx Wx H) 215x 67.4x 33 mm	Page 1 Page 3 Page 4 Page 5 6 Page 11 Page 21 Page 20 Page
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LDV-185 Series ULP-150 Series APV-12/16 APV-25/35 Series LPL-18, LPH-18 LPV-20	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H) 2215x 67.4x 33 mm Dimension (Lx Wx H) Dimension (Lx Wx H) 215x 67.4x 33 mm	Page 1 Page 4 Page 5 6 Page 11 Page 21 Page 20 Page 1
	HLP-40H/60H HLP-80H Series APC-12/16 APC-25/35 Series LPLC-18, LPHC-18 LPC-20 LPC-35 LPC-60 Series ELN-30 ELN-60 Series PCD-16/25 PCD-40/60 PLD-16/25 PLD-40/60 Series LCM-40/60 Series LDV-185 Series ULP-150 Series APV-12/16 APV-25/35 Series	147x 53x 27 mm 167x 53x 29.5 mm Dimension (Lx Wx H) 77x 40x 29 mm 84x 57x 29.5 mm Dimension (Lx Wx H) 140x 30x 22 mm 118x 35x 26 mm 148x 40x 30 mm 162.5x 42.5x 32 mm Dimension (Lx Wx H) 145x 47x 30 mm 181x 61.5x 35 mm Dimension (Lx Wx H) 84x 57x 29.5 mm 128x 60x 31.5 mm 84x 57x 29.5 mm 128x 60x 31.5 mm Dimension (Lx Wx H) 222.2x 90x 38.8 mm Dimension (Lx Wx H) 215x 67.4x 33 mm Dimension (Lx Wx H) 215x 67.4x 33 mm	Page 1 Page 4 Page 5 6 Page 11 Page 21 Page

Comparison Chart

Far	nily	PFC (N	lote 1)	AC Input		C.C.		S: .	V / T	Mari	W	
Series Name	Type (Note 3)	Single Stage	Two Stage	Range (VAC)	Potted	or C.V.	IP	Dimming (Note 2)	Vo / Io Adj	Max. Eff.	Warranty (years)	Remark
HLG-40H / 60H	A ★						65		√			
/ 80H / 100H /	B C (240W/320W only)			00 305		614.66	67	3 in 1	√	0.50/	_	
120H / 150H / 185H / 240H /	Blank		√	90~305	√	C.V.+C.C.	67			95%	5	
320H	D (option)						67	Timer				
HVG(C)-100/150	A ★		√	180~480 (528)	√	C.V.+C.C.	65 67	3 in 1	√	91%	5	
1144(2) 100/130	D (option)			100 400 (320)	· ·	C.V. T C.C.	67	Timer		3170	,	
HSG-70			✓	90~305	✓	C.V.+C.C.	65		Io	90%	3	
	A ★ B		_				65 67		✓			
CLG-150	С		✓	90~295	√	C.V.+C.C.	<u> </u>		✓	91%	3	
	Blank						67					
CLG-100			✓	90~295	√	C.V.+C.C.	67			88.5%		
CLG-60		4		90~295	√	C.V.+C.C.	67			89%	3	
CEN-60 / 75 / 10		✓		90~295		C.V.+C.C.	66		√	91%	3	Multiple
LDV-185			✓	180~295	✓	C.C.	67	Timer (D-Type)		88%	3	channel C.C. output
ULP-150			✓	90~295	(half)	C.V.			Vo	93%	3	U-bracket
HLN-40H / 60H / 80H	A B		✓	90~305		C.V.+C.C.	64	3 in 1	✓	91%	3	
LPF-16	D Blank		✓	90~305	✓	C.V.+C.C.	67 (16W option)	3 in 1		90.5%	3	
PLN-100			✓	90~295		C.V.+C.C.	64		✓	90%	2	
PLN-30 / 45 / 60		✓		90~295		C.V.+C.C.	64		✓	89%	2	
PLN-20		✓		90~277		C.V.+C.C.	64		Ιο	83.5%	2	
PLC-100			✓	90~264		C.V.+C.C.			\checkmark	90%	2	Terminal block I/O
PLC-30 / 45 / 60		✓		90~264		C.V.+C.C.			✓	89%	2	Terminal block I/O
PCD-16 / 25 / 40	/ 60	✓		A: 90~135 B: 180~295	(half)	C.C.	30	AC Phase-Cut		87%	3	2.000170
PLD-16 / 25 / 40	/ 60	✓		16/40/60W: A-90~135 B-180~295 25W: 90~295	(half)	C.C.	30			88%	3	
LCM-40 / 60 LCM-40DA / 60D)A		✓	180~295		C.C.	20	0~10Vdc & PWM DALI & push DIM		90%	3	Io level selectable in one power unit
PLP-20 / 30 / 45	/ 60	✓		20W: 90~277 30~60W:90~264		C.V.+C.C.			Io	89%	2	PCB type
HLP-40H / 60H /	′ 80Н		\	90~305		C.V.+C.C.		3 in 1	✓	90.5%	3	PCB type
ELN-30 / 60				90~264		C.V.+C.C.	64	1~10Vdc or PWM	✓	88%	2	
LPH / LPL-18 LPV-20 / 35 / 60	/ 100			LPH: 180~264 LPL: 90~132 LPV: 90~264	✓	C.V.	67			89%	2	
LPHC / LPLC-18 LPC-20 / 35 / 60				LPHC: 180~264 LPLC: 90~132 LPC: 90~264	✓	C.V.+C.C.	67			87%	2	
APC-12 / 16 / 25	/ 35			90~264	√ (16W/35W half)	C.V.+C.C.	30			84%	2	
APV-12 / 16 / 25	/ 35			90~264	√ (16W/35W half)	C.V.	30			84%	2	

Note 1 • Single-Stage PFC: No hold-up time and higher Ripple & Noise. Not to use in regions with unstable utility status is highly recommended. (For C.V. mode operation, please refer to the application Q&A on MEANWELL LED website.)

[■]Two-Stage PFC: Longer hold-up time and lower Ripple & Noise. Suitable for LED lighting and general industrial applications.

[■] Non-PFC: PF<0.6 and target at regions where PF compliance does not required.

 $[\]textbf{Note 2} \quad \text{3-in-1 dimming: 1\sim10$Vdc, PWM signal, or resistance. Timer: Timmer dimming function, please contact MEANWELL for details.}$

Note 3 ★ are popular models and will have sufficient stock for prompt delivery of high quantity orders.



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