

# HVGC series 65~150W

## Features

- Constant current mode
- 180~528VAC wide input range
- High efficiency up to 91%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires (HVGC-150)
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- 5 years warranty




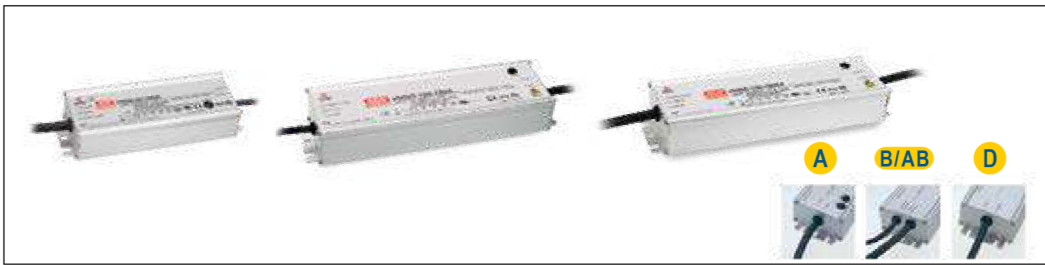
- Multiple models for choice:

**A-Type:** IP65 rated. Io adjustable through built-in potentiometer

**B-Type:** IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)

**AB-Type:** IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.

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

		HVGC-65	HVGC-100	HVGC-150
<b>INPUT</b>		ACL ACN FG		
<b>OUTPUT</b> (Non-Dimming Models)		Vo- Vo+		
<b>OUTPUT</b> (Dimming Models)		DIM+ DIM- Vo- Vo+		
				
AC input voltage range	180~528VAC (single phase); 254~747VDC			
AC inrush current (max.)	Cold start, 25A at 480VAC		Cold start, 35A at 480VAC	
Current adjustment range	60%~100% via potentiometer (A-Type only)			
Over voltage protection	105%~115% rated output voltage			
Setup time	400ms at 347VAC/480VAC	500ms at 347VAC/480VAC	400ms at 347VAC/480VAC	
Withstand voltage	I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 1.5kVAC			
Working temperature	-40~+80°C (refer to "OUTPUT LOAD vs TEMPERATURE")			
Safety standards	UL8750 (for HVGC-65/100), UL8750(type"HL" fro HVGC-150)CSA C22.2 No. 250.0-08, TUV BS EN61347-1, BS EN61347-2-13, BS EN62384, independent (for HVGC-65),EAC TP TC 004, IP65 or IP67 approved;design refer to UL60950-1 (for HVGC-100)			
EMC standards	BS EN55015, BS EN61000-3-2 class C, BS EN61000-3-3, BS EN61000-4-2,3,4,5,6,8,11, BS EN61547,FCC part 15 subpart B, EAC TP TC 020			
Connection	Input	UL rated, STW 18AWGx3C (30cm)		
	Output	A&D-Type	SJTW 18AWGx2C (30cm)	STW 18AWGx2C (30cm)
		B/AB-Type	SJTW 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)	STW 18AWGx2C (30cm)+UL2517 18AWGx2C (30cm)
Dimension (LxWxH)(mm)	189x 61.5x 36.8		236x 68x 38.8	

## HVGC-65 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-65-350(A)	18~186V, 350mA	±5%	5% max.	90.0%
HVGC-65-500(A)	13~130V, 500mA	±5%	5% max.	90.5%
HVGC-65-700(A)	9~93V, 700mA	±5%	5% max.	90.5%
HVGC-65-1050(A)	6~62V, 1050mA	±5%	5% max.	90.0%

○ = A, B, AB or D

## HVGC-100 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-100-350(A)	29~285V, 350mA	±5%	5% max.	91%
HVGC-100-700(A)	15~142V, 700mA	±5%	5% max.	91%

○ = A, B, AB or D

## HVGC-150 Series

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-150-350(A)	42~428V, 350mA	±5%	5% max.	91%
HVGC-150-500(A)	30~300V, 500mA	±5%	5% max.	91%
HVGC-150-700(A)	21~215V, 700mA	±5%	5% max.	91%
HVGC-150-1050(A)	15~143V, 1050mA	±5%	5% max.	90%
HVGC-150-1400(A)	12~107V, 1400mA	±5%	5% max.	90%

○ = A, B, AB or D

# HVGC series 240~320W

## Features

- Constant current mode
- 180~528VAC wide input range
- High efficiency up to 93.5%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- 5 years warranty

- Multiple models for choice:
  - A-Type:** IP65 rated. Io adjustable through built-in potentiometer
  - B-Type:** IP67 rated. 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)
  - AB-Type:** IP65 rated. Io adjustable through built-in potentiometer & 3 in 1 dimming function.
  - D2-Type (option):** IP67 rated. **Smart timer dimming function\***, contact MEAN WELL for details



AC input voltage range	180~528VAC ; 254~747VDC		
AC inrush current (max.)	Cold start, 50A at 480VAC		
Current adjustment range	50%~100% via potentiometer (A-Type only)		
Over voltage protection	105%~110% shut down o/p voltage, re-power on to recover		
Setup time	500ms at 347VAC/480VAC		
Withstand voltage	I/P-O/P:3.75KVAC, I/P-FG:2KVAC, O/P-FG:1.5KVAC		
Working temperature	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")		
Safety standards	UL8750 (type"HL"), EAC TP TC 004 approved, IEC/BS EN61347-1, IEC/BS EN61347-2-13		
EMC standards	FCC Part 15 subpart B, BS EN55015, BS EN61000-3-2(@load≥50%), BS EN61000-3-3, BS EN61000-4-2,3,4,5,6,8,11, BS EN61547, EAC TP TC 020		
Connection	Input	UL rated, STW 18AWGx3C (30cm)	
	Output	A-Type	STW 18AWGx2C (30cm)      SJTW 14AWGx2C (30cm)
		B/AB/D2-Type	STW 18AWGx2C (30cm) + UL2517 22AWGx2C (30cm)      SJTW 14AWGx2C (30cm) + UL2517 22AWGx2C (30cm)
Dimension (LxWxH)(mm)	254.2x 68x 38.8	262x 90x 43.8	

**HVGC-240 Series**

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-240-700(A)	171.4~342.8V, 700mA	±5%	5% max.	93.5%
HVGC-240-1050(A)	114.3~228.6V, 1050mA	±5%	5% max.	93.0%
HVGC-240-1400(A)	85.7~171.4V, 1400mA	±5%	5% max.	93.0%
HVGC-240-1750(A)	68.5~137.1V, 1750mA	±5%	5% max.	93.0%
HVGC-240-2100(A)	57.2~114.3V, 2100mA	±5%	5% max.	92.5%
HVGC-240-2800(A)	42.9~85.7V, 2800mA	±5%	5% max.	92.5%
HVGC-240-3500(A)	34.3~68.6V, 3500mA	±5%	5% max.	92.5%

○ = A, B, AB or D2

**HVGC-320 Series**

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-320-700(A)	214~428V, 700mA	±5%	5% max.	93.5%
HVGC-320-1050(A)	152.4~304.8V, 1050mA	±5%	5% max.	93.5%
HVGC-320-1400(A)	114.3~228.6V, 1400mA	±5%	5% max.	93.5%
HVGC-320-1750(A)	91.4~182.8V, 1750mA	±5%	5% max.	93.5%
HVGC-320-2100(A)	76.2~152.4V, 2100mA	±5%	5% max.	93.5%
HVGC-320-2800(A)	57~114.3V, 2800mA	±5%	5% max.	93.5%
HVGC-320-3500(A)	45.7~91.4V, 3500mA	±5%	5% max.	93%

○ = A, B, AB or D2

\*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

# HVGC series 480~650W

## Features

- Constant power mode
- 180~528VAC wide input range
- High efficiency up to 95.5%
- Type HL LED Driver for use in Class I, Division 2 hazardous location luminaires
- Suitable for dry, damp, and wet location
- Suitable for outdoor LED lighting applications
- Protections: Short circuit / Over voltage / Over temperature
- With auxiliary DC output power (optional for HVGC-650)
- 5 years warranty

- Multiple models for choice:
  - Blank-Type(option):** IP67 rated. Io and Vo fixed. (For harsh environment) (HVGC-480 only)
  - AB-Type:** IP67 rated. Standard constant power output with 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) and built-in potentiometer
  - D2-Type (option):** IP67 rated. Built-in Smart timer dimming and programmable function
  - DA-Type (option):** IP67 rated. DALI control technology (HVGC-650 only)
  - ADA-Type(option):** IP65 rated. DALI control technology with Io adjustable via build-in Potentiometer (HVGC-480 only)



AC input voltage range	180~528VAC ; 254~747VDC	
AC inrush current (max.)	Cold start, 40A at 480VAC	
Current adjustment range	50%~100% via potentiometer (A-Type only)	
Over voltage protection	105%~110% shut down o/p voltage, re-power on to recover	
Setup time	500ms at 347VAC/480VAC	
Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC O/P-FG:1.5KVAC
Working temperature (Tcase)	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750, CSA C22.2 No. 250.13-12, IP65 or IP67, EAC TP TC 004 approved	
EMC standards	FCC Part 15 subpart B, BS EN61000-4-2,3,4,5,6,8,11, BS EN61547, EAC TP TC 020	
Connection	Please refer to page 66	
Dimension (LxWxH)(mm)	262x 125x 43.8	280x 144x 48.5

**HVGC-480 Series**

(for ADA-Type only)

(AB/B-Type)

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-480-L- <input type="checkbox"/> AB	137~343V, 1400~1750mA	±5%	5% max.	94.5%
HVGC-480-M- <input type="checkbox"/> AB	92~228.5V, 2100~2625mA	±5%	5% max.	94.5%
HVGC-480-H- <input type="checkbox"/> AB	68~171.5V, 2800~3500mA	±5%	5% max.	94.5%

= AB, blank, D2 or ADA

**HVGC-650 Series**

(for DA-Type only)

(AB/B-Type)

Model No.	Output	Io Tol.	Io Ripple	Effi.
HVGC-650○-L- <input type="checkbox"/> AB	93~232V, 2800~3500mA	±5%	5% max.	95%
HVGC-650○-M- <input type="checkbox"/> AB	62~155V, 4200~5250mA	±5%	5% max.	95%
HVGC-650○-H- <input type="checkbox"/> AB	47~116V, 5600~7000mA	±5%	5% max.	95%
HVGC-650○-U- <input type="checkbox"/> AB	24~58V, 11200~14000mA	±5%	5% max.	95.5%

○ = Blank, A ;  
 Blank: without auxiliary function, A: with auxiliary DC output power = AB, D2 or DA

\*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.

# HVGC&FDL series

## Features(HVGC)

- Constant power mode output
- Wide input range 180~528VAC with active PFC
- Metal housing with Class I design
- Surge protection with 8KV/4KV
- Suitable for outdoor LED lighting applications
- Auxiliary DC output available
- 5 years warranty

• Protections: Short circuit / Over voltage / Over temperature

• Multiple models for choice:

**AB-Type:** IP67 rated. Standard constant power output with 3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance) and built-in potentiometer

**D2-Type (option):** IP67 rated. Built-in Smart timer dimming and programmable function

**DA-Type (option):** IP67 rated. DALI-2 control technology with I<sub>o</sub> adjustable via build-in Potentiometer



AC input voltage range	180~528VAC; 254~747VDC	180~295VAC
AC inrush current (max.)	Cold start 40A at 480VAC	Cold start 11A at 230VAC
Current adjustment range	50%~100% via potentiometer (AB-Type only)	/
Over voltage protection	105%~110% shut down o/p voltage, re-power on to recover	46~56V for FDL-65-1550, 40-48V for FDL-65-1800, shut down o/p voltage, re-power on to recover
Setup time	500ms/230VAC, 347VAC, 480VAC	50ms/230VAC
Withstand voltage	I/P-O/P:4.2KVAC I/P-FG:2.1KVAC O/P-FG:1.5KVAC	I/P-O/P:3.75KVAC, I/P-FG:2KVAC, O/P-FG:1.5KVAC
Working temperature (Tcase)	-40~+90°C (refer to "OUTPUT LOAD vs TEMPERATURE")	
Safety standards	UL8750 (type "HL"), CSA C22.2 No. 250.13-14, ENEC BS EN61347-1, BS EN61347-2-13 independent, BS EN62384, CCC GB19510.1, GB19510.14; EAC TP TC 004, IP67 approved EAC TP TC 004, IP67, BS EN62386(DA type only)	LVD BS EN61347-1, BS EN61347-2-13 Independent, GB19510.1, GB19510.14, EAC TP TC 004, IP65 approved
EMC standards	FCC Part 15 class B, BS EN55015, BS EN61000-3-2 Class C (@ load ≥ 50%); BS EN61000-3-3, BS EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020, BS EN61547, CCC GB/T17743 and GB17625	Compliance to BS EN55015, BS EN61000-3-2 Class C (load ≥ 60%); BS EN61000-3-3, GB17743, GB17625.1, EAC TP TC 020, BS EN61000-4-2,3,4,5,6,8,11; BS EN61547
Connection	Input	Please refer to page 66
	Output	
Dimension (LxWxH)(mm)	310x 144x 48.5	H05RN 1.0mm <sup>2</sup> *2C H05RN 1.0mm <sup>2</sup> *2C

## HVGC-1000 Series



Model No.	Output	I <sub>o</sub> Tol.	I <sub>o</sub> Ripple	Effi.
HVGC-1000A-L- <input type="checkbox"/> AB	150~380V, 1320~3280mA	±5%	3% max.	95.5%
HVGC-1000A-M- <input type="checkbox"/> AB	95~240V, 2100~5250mA	±5%	3% max.	96%
HVGC-1000A-H- <input type="checkbox"/> AB	70~180V, 2800~7000mA	±5%	3% max.	96%

= AB, D2 or DA

## FDL-65 Series



Model No.	Output	I <sub>o</sub>	Tol.	Effi.
FDL-65-1550	25.2~42V	770~1550mA	±5%	90%
FDL-65-1800	21.6~36V	900~1800mA	±5%	90%

\*MEAN WELL Smart timer dimming primarily provides the adaptive proportion dimming profile for the output constant current level.