



10~96W Single Output

Features

- Universal AC input / Full range
- No load power consumption <0.75W (<1W for MDR-100)
- Protections: Short circuit / Overload / Over voltage
- LED indicator for power on
- Installed on DIN rail TS35 / 7.5 or 15
- NEC class 2 / UPS compliant (selected models)

- Built-in active PFC and over temp. protection (MDR-100)
- DC OK signal output (MDR-10/20)
- DC OK relay contact (MDR-40/60/100)
- Cooling by free air convection
- 100% full load burn-in test
- 3 years warranty



General SPEC

(Please refer to www.meanwell.com for detail spec.)

MODEL NO.	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC, 120~370VDC				
AC inrush current (max.)	Cold start, 35A at 115VAC, 70A at 230VAC	Cold start, 20A at 115VAC, 40A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	Fixed	±10% rated output voltage	0 ~ +20% rated output voltage		
Overload protection	>105% hiccup mode, auto-recovery	±10%~160% constant current limiting	105%~150% constant current limiting, auto-recovery		
Over voltage protection	115%~135% rated output voltage		120%~150% rated output voltage		
Setup, rise, hold up time	500ms, 30ms, 50ms at full load and 230VAC (3000ms of set up time for MDR-100)				
Withstand voltage	100V~200VAC, 100V~200VDC, 1 minute				
Working temperature	-20~+70°C (refer to output derating curve)				-10~+60°C
DC OK signal	Open collector		Relay contact		
Safety standards	UL508, TUV EN60950-1 approved, UL60950-1 (MDR-40/60) approved, NEC class 2 / UPS compliant (MDR-10/20, MDR-40-12/24/48, MDR-60-12/24/48, MDR-100-24/48)				
EMC standards	EN55022 class B, EN61000-3-2, EN55024, EN61000-4-2, 4.5.6.8.11, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100)				
Connection	10P: 3 poles, O/P: 3 poles screw DIN terminal		10P: 3 poles, O/P: 6 poles screw DIN terminal		
Dimension (WxHxL) (mm)	22.5x 90x 100		40x 90x 100		55x 90x 100
Packing	72pcs / 13.2kg	72pcs / 14.7kg	42pcs / 13.6kg	42pcs / 14.8kg	30pcs / 13.6kg

10W Series (MDR-10)

Model No.	Output	Tol.	R&N	Eff.
MDR-10-5	5V, 0~3.00A	±5%	80mV	77%
MDR-10-12	12V, 0~0.84A	±3%	120mV	81%
MDR-10-15	15V, 0~0.67A	±3%	120mV	81%
MDR-10-24	24V, 0~0.42A	±2%	150mV	84%

20W Series (MDR-20)

Model No.	Output	Tol.	R&N	Eff.
MDR-20-5	5V, 0~3.00A	±2%	80mV	76%
MDR-20-12	12V, 0~1.67A	±1%	120mV	80%
MDR-20-15	15V, 0~1.34A	±1%	120mV	81%
MDR-20-24	24V, 0~1.00A	±1%	150mV	84%

40W Series (MDR-40)

Model No.	Output	Tol.	R&N	Eff.
MDR-40-5	5V, 0~6.00A	±2%	80mV	78%
MDR-40-12	12V, 0~3.33A	±1%	120mV	86%
MDR-40-24	24V, 0~1.70A	±1%	150mV	88%
MDR-40-48	48V, 0~0.83A	±1%	200mV	88%

60W Series (MDR-60)

Model No.	Output	Tol.	R&N	Eff.
MDR-60-5	5V, 0~10.0A	±2%	80mV	78%
MDR-60-12	12V, 0~5.00A	±1%	120mV	86%
MDR-60-24	24V, 0~2.50A	±1%	150mV	88%
MDR-60-48	48V, 0~1.25A	±1%	200mV	87%

96W Series (MDR-100)

Model No.	Output	Tol.	R&N	Eff.
MDR-100-12	12V, 0~7.50A	±1%	120mV	85%
MDR-100-24	24V, 0~4.00A	±1%	150mV	86%
MDR-100-48	48V, 0~2.00A	±1%	200mV	88%

120~480W High Efficiency



Features

- High efficiency up to 94%
- Universal AC input / Full range
- Built-in PFC function, PF>0.92@230VAC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508 (Industrial control equipment) listed
- EN61000-6-2 (EN50082-2) Industrial immunity level
- Built-in DC OK relay contact
- 150% peak load capability
- Comply with GL and SEMI F47
- 3 years warranty

General SPEC

(Please refer to www.meanwell.com for detail spec.)

MODEL NO.	SDR-120	SDR-240	SDR-480
AC input voltage range	88~264VAC, 124~370VDC		90~264VAC, 127~370VDC
AC inrush current (max.)	Cold start, 33A at 115VAC, 65A at 230VAC		Cold start, 40A at 115VAC, 80A at 230VAC
DC adjustment range	12V~14V (SDR-120 only), 24V~24.8V, 48V~48.5V		
Normally works within 110 ~ 150% rated output power for 3 sec. (4 sec. for SDR-120) and then shut down output voltage with auto-recovery.			
Overload protection	>150% rated power or short circuit, constant current limiting with auto recovery within 2 sec. (4 sec. for SDR-120) and may cause to shut down if over 2 sec.		
OVP	Range: 14~16V for 12V model (SDR-120 only), 29~33V for 24V model, 56~56V for 48V model Type: Protection type : Shut down o/p voltage with auto-recovery		105°C±5°C (TSW : detect on heatsink of power switch)
OTP	Range: 95°C±5°C Type: (TSW : detect on heatsink of power switch) Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage	100V~200VAC, 100V~200VDC, 1 minute		
Working temperature	-25 ~ +70°C (Refer to output derating curve)		
Safety standards	UL508, TUV EN60950-1 approved (120W pending); GL approved for SDR-240		
EMC standards	Compliance to EN55022 Class B, EN61000-4-2, 4.5.6.8.11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3 heavy industry level, SEMI F47, GL (SDR-240 only)		
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	I/P: 3 poles, O/P: 8 poles screw DIN terminal
Dimension (WxHxL) (mm)	40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5

120W Series (SDR-120)

Model No.	Output	Tol.	R&N	Eff.
SDR-120-12	12V, 0~10A	±1%	100mV	90%
SDR-120-24	24V, 0~5.0A	±1%	100mV	91%
SDR-120-48	48V, 0~2.5A	±1%	120mV	91%

240W Series (SDR-240)

Model No.	Output	Tol.	R&N	Eff.
SDR-240-24	24V, 0~10A	±1%	100mV	94%
SDR-240-48	48V, 0~5.0A	±1%	120mV	94%

480W Series (SDR-480)

Model No.	Output	Tol.	R&N	Eff.
SDR-480-24	24V, 0~20A	±1%	100mV	94%
SDR-480-48	48V, 0~10A	±1%	120mV	94%

DR-RDN20 20A Power Supply Redundant Module

- Suitable for redundant operation of 24V system
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty



DR-UPS40 40A DC UPS Control Unit

- Battery controller for DIN rail UPS system
- Parallel connection to DC BUS
- Suitable for 24V system up to 40A
- Built-in battery test function
- Battery polarity protection
- Relay contact signal output and LED indicator for DC BUS OK, Battery Fail, and Battery Discharge
- Cooling by free air convection
- 3 years warranty



DIN SERIES

- 10W~96W Slim Type Single Output Series
- 15W~100W Step Shape Class II Series
- 45W~480W Single Phase Series
- 120W~960W High Input Voltage Series
- 120W~480W Miniature & High Efficiency Series
- Redundancy and DC UPS Modules



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Features

- Universal AC input / Full range
- Protections:
 - Short circuit / Overload / Over voltage / Over temperature (DR-100)
- No load power consumption < 0.5W (DR-15)
- No load power consumption < 1W (DR-100)
- Cooling by free air convection
- Installed on DIN rail TS-35 / 7.5 or 15
- **Isolation Class II**
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty
- Suitable for building automation and control of household appliance

General SPEC

(Please refer to www.meanwell.com for detail spec.)

MODEL NO.	DR-15	DR-30	DR-60	DR-100
AC input voltage range	85~264VAC; 120~370VDC		85~264VAC; 124~370VDC	
AC inrush current (max.)	Cold start, 65A at 230VAC	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range	±10% rated output voltage			
Over load protection	105%~160% constant current limiting, auto-recovery			
OVP	115%~135% rated output voltage			
Withstand voltage	I/P - O/P: 3KVAC			
Working temperature	-20~+60°C (please refer to output derating curves)			
Safety standards	UL60950-1, TUV EN60950-1 approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN55024, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level			
Connection	I/P and O/P: 2 poles screw DIN terminal	I/P: 2 poles, O/P: 4 poles screw DIN terminal		
Dimension (wmm)(mm)	25x 93x 56	78x 93x 56	78x 93x 56	100x 93x 56
Case No.	955A	918B	918B	970A
Packing	140pcs / 15.0kg	46pcs / 14.0kg	48pcs / 15.4kg	36pcs / 13.6kg

15W Series (DR-15)

Model No.	Output	Tol.	R&N	Eff.
DR-15-5	5V, 0~2.4A	±2%	80mV	77%
DR-15-12	12V, 0~1.25A	±1%	120mV	84%
DR-15-15	15V, 0~1.0A	±1%	120mV	83.5%
DR-15-24	24V, 0~0.63A	±1%	150mV	85%

60W Series (DR-60)

Model No.	Output	Tol.	R&N	Eff.
DR-60-5	5V, 0~6.5A	±2%	80mV	76%
DR-60-12	12V, 0~4.5A	±1%	120mV	82%
DR-60-15	15V, 0~4.0A	±1%	120mV	83%
DR-60-24	24V, 0~2.5A	±1%	150mV	84%

30W Series (DR-30)

Model No.	Output	Tol.	R&N	Eff.
DR-30-5	5V, 0~3.0A	±2%	80mV	74%
DR-30-12	12V, 0~2.0A	±1%	120mV	81%
DR-30-15	15V, 0~2.0A	±1%	120mV	82%
DR-30-24	24V, 0~1.5A	±1%	150mV	83%

100W Series (DR-100)

Model No.	Output	Tol.	R&N	Eff.
DR-100-12	12V, 0~7.5A	±2%	120mV	87%
DR-100-15	15V, 0~6.5A	±1%	120mV	87%
DR-100-24	24V, 0~4.2A	±1%	150mV	89%



15W~100W
Step Shape Class II



45~480W
Single Phase



Features

- Universal AC input / Full range (DR-45/75, DRP-240)
- AC input selectable by switch (DR-120, DRP-480S)
- AC input 180~264VAC only (DRP-480)
- Built-in active PFC function, PF>0.95(DRP-240)
- Built-in passive PFC function compliance to EN61000-3-2 (480W models)
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (Industrial control equipment) listed
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

General SPEC

(Please refer to www.meanwell.com for detail spec.)

MODEL NO.	DR-45	DR-75	DR-120	DRP-240	DRP-480	DRP-480S
AC input voltage range	85~264VAC (DR-45/75, DRP-240); 90~132/180~264VAC selectable by switch (DR-120, DRP-480S); 180~264VAC only (DRP-480)					
AC inrush current (max.)	Cold start, 56A at 230VAC	Cold start, 40A at 230VAC	Cold start, 45A at 230VAC	Cold start, 45A at 230VAC	Cold start, 45A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range	±10%					
Overload protection	105%~150% constant current limiting, auto recovery					
OVP	115~142% rated output voltage					
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down					
Withstand voltage	I/P - O/P: 3KVAC, I/P - FG: 1.5KVAC, O/P - FG: 0.5KVAC, 1 minute					
Working temperature	-10~+50°C					
Safety standards	UL508, TUV EN60950-1 approved (UL60950-1 also for DR-120, DRP-240, DRP-480, DRP-480S)					
EMC standards	EN55022 class B, EN61000-3-2,3, EN55024, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level					
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal					
Dimension (wmm)(mm)	78x 93x 67	85.5x 125.2x 100	65.5x 125.2x 100	125.5x 125.2x 100	227x 125.2x 100	227x 125.2x 100
Case No.	918A	923	923A	922A	930	922A
Packing	48pcs / 16.1kg	20pcs / 13.0kg	20pcs / 16.5kg	12pcs / 15.5kg	6pcs / 15.0kg	6pcs / 16.6kg

45W Series (DR-45)

Model No.	Output	Tol.	R&N	Eff.
DR-45-5	5V, 0~5.0A	±2%	100mV	72%
DR-45-12	12V, 0~3.5A	±1%	200mV	77%
DR-45-15	15V, 0~3.0A	±1%	240mV	77%
DR-45-24	24V, 0~2.0A	±1%	480mV	80%

75W Series (DR-75)

Model No.	Output	Tol.	R&N	Eff.
DR-75-12	12V, 0~6.3A	±2%	100mV	76%
DR-75-24	24V, 0~3.2A	±1%	150mV	80%
DR-75-48	48V, 0~1.6A	±1%	240mV	81%

120W Series (DR-120)

Model No.	Output	Tol.	R&N	Eff.
DR-120-12	12V, 0~10A	±2%	80mV	80%
DR-120-24	24V, 0~5.0A	±1%	80mV	84%
DR-120-48	48V, 0~2.5A	±1%	100mV	85%

240W Series (DRP-240)

Model No.	Output	Tol.	R&N	Eff.
DRP-240-24	24V, 0~10A	±1%	80mV	84%
DRP-240-48	48V, 0~5.0A	±1%	150mV	85%

480W Series (DRP-480/DRP-480S)

Model No.	Output	Tol.	R&N	Eff.
DRP-480-24	24V, 0~20A	±1%	120mV	89%
DRP-480-48	48V, 0~10A	±1%	120mV	89%
DRP-480S-24	24V, 0~20A	±1%	120mV	89%
DRP-480S-48	48V, 0~10A	±1%	120mV	89%



120~960W
High Input Voltage



Features

- Input 340~550VAC, 3-phase 4 wires (single phase for DRH-120)
- High efficiency and low dissipation
- Protections: Short circuit / Overload / Over voltage / Over temp.
- Built-in constant current limiting circuit
- Cooling by free air convection
- Can be installed on DIN rail TS-35 / 7.5 or 15
- UL508 (Industrial control equipment) approved (240~960W)
- EN61000-6-2 Industrial Immunity level
- Optional parallel function (1+1) (DRT-960 only)
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

General SPEC

(Please refer to www.meanwell.com for detail spec.)

MODEL NO.	DRH-120	DRT-240	DRH-480	DRT-960
AC input voltage range	340~550VAC, single phase	340~550VAC, 3-phase 4 wires (dual-phase operation possible)		
AC inrush current (max.)	Cold start, 50A at 400VAC			
DC adjustment range	24V: 24~28V, 48V: 48~55V			
Overload protection	105%~160% rated output power; Constant current limiting, auto-recovery	105%~150% rated output power; Constant current limiting, auto-recovery	105~125% constant current limiting, delay shut off after 3 sec.	
OVP	24V: 30~36V, 48V: 58~66V			
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down			
Withstand voltage	I/P - O/P: 3KVAC, I/P - FG: 1.5KVAC, O/P - FG: 0.5KVAC, 1 minute			
Working temperature	-20 ~ +60°C			
Safety standards	UL60950-1 approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN55024, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level			
Connection (screw DIN terminal)	I/P: 3 poles, O/P: 4 poles			
Dimension (wmm)(mm)	85.5x 125.2x 100	125.5x 125.2x 100	227x 125.2x 100	276x 125.2x 100
Case No.	921	922A	930A	934
Packing	20pcs / 16.0kg	12pcs / 16.6kg	6pcs / 16.0kg	4pcs / 14.2kg

120W Series (DRH-120)

Model No.	Output	Tol.	R&N	Eff.
DRH-120-24	24V, 0~5.0A	±1%	80mV	85%
DRH-120-48	48V, 0~2.5A	±1%	80mV	86%

240W Series (DRT-240)

Model No.	Output	Tol.	R&N	Eff.
DRT-240-24	24V, 0~10A	±1%	80mV	89%
DRT-240-48	48V, 0~5.0A	±1%	80mV	89%

480W Series (DRH-480)

Model No.	Output	Tol.	R&N	Eff.
DRH-480-24	24V, 0~20A	±1%	80mV	89%
DRH-480-48	48V, 0~10A	±1%	80mV	90%

960W Series (DRT-960)

Model No.	Output	Tol.	R&N	Eff.
DRT-960-24	24V, 0~40A	±1%	80mV	91%
DRT-960-48	48V, 0~20A	±1%	80mV	92%