



DIN

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Slim



10~96W Single Output

Features

- Universal AC input / Full range
- **No load power consumption <math><0.75W</math> (~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 / LPS 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

Model No.	MDR-10	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC, 120~370VDC				
AC inrush current	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	105%~160% constant current limiting, auto-recovery	105%~150% constant current limiting, auto-recovery		
Over voltage protection	115%~135% rated output voltage		125%~150% rated output voltage		
Setup, rise, hold up time	500ms, 30ms, 50ms at full load and 230VAC				3000ms, 50ms, 50ms
Withstand voltage	I/P-O/P:3kVAC, I/P-FG:1.5kVAC, 1minute				
Working temperature	-20~+70°C (refer to output derating curve)				-10~+60°C
DC OK signal	Open collector	Open collector	Relay contact		
Safety standards	UL508, TUV EN60950-1, UL60950-1(MDR-40/60) approved, NEC class 2 compliant (MDR-10/20, MDR-40-12/24/48, MDR-60-24/48)				
EMC standards	EN55022 class B, EN61000-3-2,-3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level (MDR-40/60/100)				
Connection	I/P: 3 poles, O/P: 3 poles screw DIN terminal		I/P: 3 poles, O/P: 6 poles screw DIN terminal		
Dimension (WxHxD) (mm)	22.5x 90x 100		40x 90x 100		55x 90x 100

10W Series (MDR-10)

Model No.	Output	Tol.	R&N	Effi.
MDR-10-5	5V, 0~2.0A	±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	Effi.
MDR-20-5	5V, 0~3.0A	±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	Effi.
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	Effi.
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	Effi.
MDR-100-12	12V, 0~7.5A	±1%	120mV	85%
MDR-100-24	24V, 0~4.0A	±1%	150mV	86%
MDR-100-48	48V, 0~2.0A	±1%	200mV	88%



15W~100W Step Shape Class II



Features

- Universal AC input / Full range
- Protections:
 - Short circuit / Overload / Over voltage (all models)
 - Over temperature (DR-100 only)
- 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

Model No.	DR-15	DR-30	DR-60	DR-100
AC input voltage range	85~264VAC, 120~370VDC		88~264VAC, 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			12V: 12~15V, 15V: 15~18V, 24V: 24~29V
Overload protection	Range	105%~160%		105%~135%
	Type	Constant current limiting, auto-recovery		
Over voltage protection	Range	115%~135% rated output voltage		125%~155% rated output voltage
	Type	Shut off, clamp by zener diode	Shut down, re-power on to recover	
Withstand voltage	I/P-O/P: 3kVAC			
Working temperature	-20°C~+60°C (refer to output load derating curve)			
Vibration	10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards	UL60950-1, TUV60950-1 approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3			
Connection	I/P and O/P: 2 poles screw DIN terminal	I/P: 2 poles, O/P: 4 poles screw DIN terminal		
Dimension (WxHxD) (mm)	25x 93x 56	78x 93x 56	78x 93x 56	100x 93x 56
Case No.	985A	918B	918B	970A
Packing	140pcs / 15.0kg	48pcs / 14.0kg	48pcs / 15.4kg	36pcs / 13.6kg

15W Series (DR-15)



CBCE

Model No.	Output	Tol.	R&N	Effi.
DR-15-5	5V, 0~2.40A	±2%	80mV	77.0%
DR-15-12	12V, 0~1.25A	±1%	120mV	84.0%
DR-15-15	15V, 0~1.00A	±1%	120mV	83.5%
DR-15-24	24V, 0~0.63A	±1%	150mV	85.0%

60W Series (DR-60)



CBCE

Model No.	Output	Tol.	R&N	Effi.
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)



CBCE

Model No.	Output	Tol.	R&N	Effi.
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)



CBCE

Model No.	Output	Tol.	R&N	Effi.
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%



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 temperature
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 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

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 (230VAC)	56A	Cold start, 40A at 230VAC		45A	40A	45A
DC adjustment range	±10%					
Overload protection	105%~150% constant current limiting, auto-recovery					
Over voltage protection	Range	115%~142% rated output voltage			30~36V for 24V model, 54~60V for 48V model	
	Type	Shut off, AC recycle to re-start				
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°C~+50°C	-10°C~+60°C		-10°C~+70°C	-20°C~+70°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, ENV50204, 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 (WxHxD) (mm)	78x 93x 67	55.5x 125.2x 100	65.5x 125.2x 100	125.5x 125.2x 100	227x 125.2x 100	
Case No.	918A	923	921A	922A	930	
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	Effi.
DR-4505	5V, 0~5.0A	±2%	100mV	72%
DR-4512	12V, 0~3.5A	±1%	200mV	77%
DR-4515	15V, 0~2.8A	±1%	240mV	77%
DR-4524	24V, 0~2.0A	±1%	480mV	80%

75W Series (DR-75)



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

480W Series (DRP-480)



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

480W Series (DRP-480S)



Model No.	Output	Tol.	R&N	Effi.
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 (two phase for DRH-120)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- Cooling by free air convection
- Can be installed on DIN rail TS35 / 7.5 or 15
- UL508 (industrial control equipment) listed (240~960W)
- EN61000-6-2 industrial immunity level
- Optional parallel function (1+1) (960W only)
- 100% full load burn-in test
- LED indicator for power on
- 3 years warranty

General SPEC

Model No.	DRH-120	DRT-240	DRT-480	DRT-960
AC input voltage range	340~550VAC, two phase	340~550VAC, 3-phase (two phase operation possible)		
AC inrush current (max.)	Cold start, 50A at 400VAC			
DC adjustment range	24V: 24~28V, 48V: 48~55V			
Overload protection	Range	105%~160%	105%~150%	105%~125%
	Type	Constant current limiting, auto-recovery		
Over voltage protection	Range	24V: 30~36V, 48V: 59~66V		
	Type	Shut off, AC recycle to re-start		
Over temperature 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	-20~+70°C		-20~+60°C
Safety standards	UL60950-1 approved	UL508, UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, ENV50204, 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	I/P: 4 poles, O/P: 4 poles		I/P: 4 poles, O/P: 6 poles
Dimension (WxHxD) (mm)	65.5x 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	Effi.
DRH-120-24	24V, 0~5.0A	±1%	80mV	85%
DRH-120-48	48V, 0~2.5A	±1%	80mV	86%

480W Series (DRT-480)



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

240W Series (DRT-240)



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

960W Series (DRT-960)



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

Slim



120~480W Wide Input Range

Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- 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) approved
- EN61000-6-2 industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty

General SPEC

Model No.	WDR-120	WDR-240	WDR-480
AC input voltage range	180~550VAC(single and two phase); 254~780VDC		
AC input current	0.55A / 400VAC, 1.2A / 230VAC	1A / 400VAC, 2A / 230VAC	1.6A / 400VAC, 4A / 230VAC
AC inrush current (max.)	Cold start, 50A at 400VAC		
DC adjustment range	12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V	
Overload protection	105%~130% rated output voltage, constant current limiting, auto-recovery		
Over voltage protection	Range	16~18V for 12V model (only for WDR-120), 29~33V for 24V model, 56~65V for 48V model	
	Type	Shut down o/p voltage, auto-recovery	
Setup, rise, hold up time	2000ms, 70ms, 10ms at full load and 230VAC	2000ms, 150ms, 16ms at full load and 230VAC	
Over temperature protection	Range	100°C±5°C	90°C±5°C
	Type	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		
Isolation resistance	100MΩ(min.)@500VDC		
Working temperature	-25~+70°C (Refer to output derating curve)	-30°C~+70°C (Refer to output derating curve)	
DC OK signal	Relay Contact		
Leakage current	<3.5mA at 530VAC		
Vibration	10~500Hz, 2G, 10 minutes / 1 cycle, period of 60 minutes each along X, Y, Z axes		
Safety standards	UL508 approved; IEC 60950-1 CB approved by SIQ; design refer to GL		
EMC standards	Compliance to EN55011(CISPR11), EN55022 Class B, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level		
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal	I/P: 3 poles, O/P: 6 poles screw DIN terminal	
Dimension (WxHxD) (mm)	40x 125.2x 113.5	63x 125.2x 113.5	85.5x 125.2x 128.5
Packing	20pcs / 14kg	12pcs / 13.7kg	8pcs / 14.6kg

120W Series (WDR-120)



Model No.	Output	Tol.	R&N	Effi.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%
WDR-120-24	24V, 0~5A	±1.0%	120mV	91.0%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92.0%

480W Series (WDR-480)



Model No.	Output	Tol.	R&N	Effi.
WDR-480-24	24V, 0~20A	±1.0%	100mV	92%
WDR-480-48	48V, 0~10A	±1.0%	150mV	93%

240W Series (WDR-240)



Model No.	Output	Tol.	R&N	Effi.
WDR-240-24	24V, 0~10A	±1.0%	150mV	91%
WDR-240-48	48V, 0~5A	±1.0%	150mV	91%

120~480W High Efficiency

Slim



Features

- High efficiency up to 94% (SDR-240/480)
- Universal AC input / Full range
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment) approved
- EN61000-6-2 industrial immunity level
- Built-in DC OK relay contact
- 150% peak load capability
- Comply with GL and SEMI F47
- Current sharing (7+1) for SDR-480P
- 3 years warranty

General 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, 70A at 230VAC	Cold start, 65A at 230VAC	Cold start, 80A at 230VAC
DC adjustment range	12V: 12~14V (only for SDR-120), 24V: 24~28V, 48V: 48~55V		
Overload protection	Normally works within 110 ~ 150% rated output power for 3 seconds and then shut down output voltage with auto-recovery		
	>150% rated power or short circuit, constant current limiting with auto-recovery within 2 seconds and may cause to shut down if over 2 seconds		
Over voltage protection	Range	14~17V for 12V model(SDR-120 only), 29~33V for 24V model, 56~65V for 48V model	
	Type	Shut down o/p voltage, re-power on to recover	Shut down o/p voltage with auto-recovery
Over temperature protection	Range	95°C±5°C	105°C±5°C
	Type	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 O/P-DC OK:0.5kVAC		
Working temperature	-25~+70°C (Refer to output derating curve)		
Safety standards	UL508, TUV EN60950-1, GL approved		
EMC standards	Compliance to EN55022 Class B, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, SEMI F47, GL		
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 (WxHxD)(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	Effi.
SDR-120-12	12V, 0~10A	±1.0%	100mV	89.0%
SDR-120-24	24V, 0~ 5A	±1.0%	100mV	91.0%
SDR-120-48	48V, 0~2.5A	±1.0%	120mV	90.5%

240W Series (SDR-240)



Model No.	Output	Tol.	R&N	Effi.
SDR-240-24	24V, 0~10A	±1.0%	100mV	94.0%
SDR-240-48	48V, 0~5A	±1.0%	120mV	94.0%

480W Series (SDR-480)



Model No.	Output	Tol.	R&N	Effi.
SDR-480 □-24	24V, 0~20A	±1.2%	100mV	94.0%
SDR-480 □-48	48V, 0~10A	±1.0%	120mV	94.0%

□ =blank, P ; Blank: basic function, P: with parallel function

Peripheral Modules

DR-RDN20 20A Power Supply Redundant Module

Features

- Suitable for redundant operation of 24V system
- Installed on DIN rail TS35 / 7.5 or 15
- Relay contact signal output and LED indicator for input failure alarm
- Cooling by free air convection
- 3 years warranty



Model No.	Output	Reverse Voltage	Current
DR-RDN20	24V, 20A	30V max.	20A max.

General SPEC

DC input voltage range	21~28V, 20A max. x 2 channels
Reverse voltage	30V
DC output current	20A max.
DC output voltage drop	0.5V max.
Input voltage alarm	When input is > 20V(±5%) or <30V(±5%), relay contacts
Relay contact rating	30VDC, 1A
Working temperature	-20~+70°C
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8, ENV50204
Connection	I/P: 4 poles, O/P: 2 poles screw DIN terminal, Signal output: 4 poles
Dimension (WxHxD) (mm)	55.5x 125.2x 100
Packing	0.5Kg ; 20pcs / 11Kg / 1.29CUFT

DR-UPS40 40A DC UPS Module

Features

- Battery controller for DIN rail UPS system
- Parallel connected to DC BUS
- Suitable for 24V system up to 40A
- Installed on DIN Rail TS35 / 7.5 or 15
- 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



Model No.	DC BUS Voltage	DC BUS Current
DR-UPS40	24~29V	40A max.

General SPEC

DC input / DC bus	24~29V, 40A max.
Battery input voltage	21~29V
Battery input Current	0~40A
Charge current (typ.)	2A
External battery (typ.)	24V, 4AH / 7AH / 12AH
DC bus ok	Relay status: Short when DC voltage between 21~29V (±3%), relay contacts LED (Green): DC bus OK: light; DC bus fail: dark
Battery fail	Relay status: Short when battery failure is observed through the battery test function, relay contacts LED (Red): Battery over-discharge warning or battery broken light; Battery OK: dark
Battery discharge	Relay status: Short when battery in discharge condition, relay contacts LED (Yellow): Battery discharging: light; Battery is not discharging or discharging current < 2A: dark
Working temperature	-20~+70°C
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8, ENV50204
Connection	I/P: 2 poles, O/P: 2 poles screw DIN terminal, Signal output: 6 poles
Dimension (WxHxD) (mm)	55.5x 125.2x 100
Packing	0.55Kg ; 20pcs / 12Kg / 1.29CUFT

