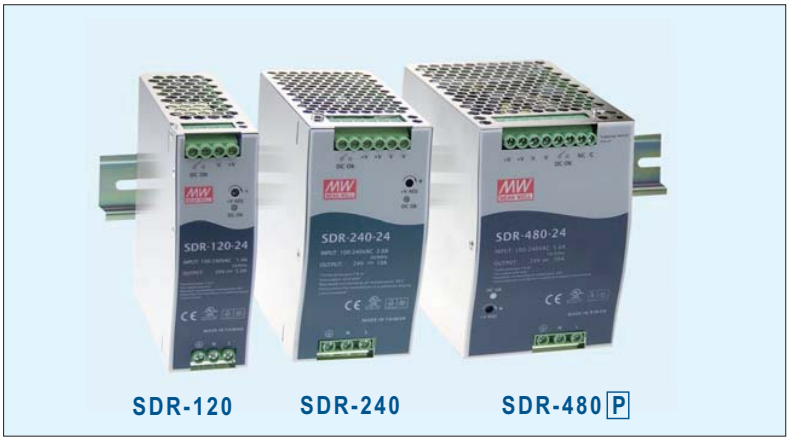
DIN Series

120~480W Slim and High Efficiency



SDR-120 SDR-240 SDR-480P

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(EN50082-2) 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 Specification (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, 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 (TSW : detect on heatsink of power switch)		105°C±5°C (TSW : detect on heatsink of power switch)
	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 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 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 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

We provide specification, drawing, test report and more information, please visit our website —
http://www.meanwell.com

Feature Description

SDR family is our new slim DIN rail product series targeting at the growing demand of high performance DIN rail power supply in the market. Featuring up to 94% of extreme high efficiency, they can provide 120W, 240W, or 480W continuously and 150% peak power for 3 seconds up to 60°C by only free air convection. The slim design of 40mm(SDR-120) / 63mm(SDR-240) / 85.5mm(SDR-480) in width helps save the precious space on the rail and also makes it 30.7%, 43% and 51.6% smaller in size compare to its predecessor model. To fulfill the requirements of marine and semi-conductor related usage, the SDR family complies with GL and SEMI F47 norms in addition to UL, CUL, TUV, and CE certificates.