

# SDR Series 75~960W Slim with up to 150% overload capability



## Power Supply Features

- High efficiency up to 94%
- Universal AC input (SDR-75~480)  
AC input 180~264VAC (SDR-960)
- Built-in active PFC (except SDR-75)
- Protection: 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 (except SDR-75)
- 150% peak load capability (SDR-75~480)  
130% peak load capability (SDR-960)
- **Current sharing up to 3840W (7+1) for SDR-480P**  
**Current sharing up to 3840W (3+1) for SDR-960**
- Complies with SEMI F47 (SDR-75~480)
- **3 year warranty**

## General Specifications (Please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detailed specs)

Model No.	SDR-75	SDR-120	SDR-240	SDR-480 □	SDR-960
AC input voltage range	88~264VAC; 124~370VDC			90~264VAC; 127~370VDC	180~264VAC; 254~370VDC
AC inrush current (max.)	50A at 230VAC*	70A at 230VAC*	55A at 230VAC*	80A at 230VAC*	50A at 230VAC, *cold start
DC adjustment range	12V: 12~14V (SDR-75/120 only), 24V: 24~28V, 48V: 48~55 V				
Overload protection	Normally works within 110~150% rated output power for 3 seconds and then shuts down the output with auto-recovery (re-power on to recover for SDR-75)				Normally works within 105~130% rated output power for 3 seconds and then shuts down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed
	>150% rated power or short circuit, constant current limiting with auto-recovery within 2 seconds and may shut down if over 2 seconds (re-power on to recover)				Constant current limiting within 130~150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover
Overvoltage protection	Range	14~17V for 12V model (SDR-75/SDR-120), 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, or re-power on to recover	
Over temperature protection	Re-power on to recover		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 (DC OK not provided on SDR-75)				
Working temperature	-30°C ~ +70°C		-25°C ~ +70°C (always refer to output derating curve)		-30°C ~ +70°C
Safety standards	UL508, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 (SDR-120~960) approved				
EMC standards	EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2) EN61204-3; SEMI F47 (SDR-75/120/240/480) approved, heavy industry level, EAC TP TC 020				
Connections	I/P: 3 pole, O/P: 4 pole screw terminals		I/P:3pole,O/P: 6pole screw terminals	I/P:3pole,O/P: 8pole screw terminals	I/P:3 pole, O/P: 6 pole screw terminals
Dimensions (WxHxD)	32x125.2x102mm	40x125.2x113.5mm	63x125.2x113.5mm	85.5x125.2x128.5mm	110x125.2x150mm
Weight	0.51kg	0.67kg	1.03kg	1.6kg	2.47kg

## SDR-75 Series



Model No.	Output	Tol.	R&N	Eff.
SDR-75-12	12V, 0~6.3A	±1.0%	100mV	88.5%
SDR-75-24	24V, 0~3.2A	±1.0%	100mV	89.0%
SDR-75-48	48V, 0~1.6A	±1.0%	120mV	90.0%

## SDR-120 Series



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

## SDR-240 Series



Model No.	Output	Tol.	R&N	Eff.
SDR-240-24	24V, 0~10A	±1.0%	50mV	94%
SDR-240-48	48V, 0~5A	±1.0%	50mV	94%

## SDR-480 Series



Model No.	Output	Tol.	R&N	Eff.
SDR-480□-24	24V, 0~20A	±1.2%	100mV	94%
SDR-480□-48	48V, 0~10A	±1.0%	120mV	94%

□ = Blank: standard function, P: parallel function

## SDR-960 Series



Model No.	Output	Tol.	R&N	Eff.
SDR-960-24	24V, 0~40A	±1.0%	180mV	94%
SDR-960-48	48V, 0~20A	±1.0%	250mV	94%