

WDR Series 120~480W Slim with 240~415VAC Input



Power Supply Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC (WDR-240/480)
- Protection: 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
- UL 508 (industrial control equipment) approved
- EN 61000-6-2 (EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- **3 year warranty**

General Specifications (Please refer to www.procontechology.com.au for detailed specs)

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 power, constant current limiting, auto-recovery	105~130% rated output power, constant current limiting, unit will shut down after 3 sec.; auto-recovery after 1 minute if the fault condition is removed.	
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, 70ms, 50ms at full load and 400VAC	1500ms, 150ms, 18ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC	2000ms, 150ms, 16ms at full load and 230VAC; 800ms, 150ms, 18ms at full load and 400VAC
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down		
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC, O/P-DC OK: 0.5kVAC, 1 minute		
Isolation resistance	100MΩ (min.) @500VDC		
Working temperature	-25°C ~ +70°C (refer to output derating curve)	-30°C ~ +70°C (refer to output derating curve)	
DC OK signal	Relay Contact 30VDC 1A		
Leakage current	< 3.5mA at 530VAC		
Vibration	10~500Hz, 2G 10 minutes / 1 cycle, period of 60 minutes each a long X, Y, Z axes		
Safety standards	UL508, EAC TP TC 004 approved; IEC60950-1 CB approved by SIQ; Design refer to GL		
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, heavy industry level, EAC TP TC 020		
Connection	I/P: 3 poles, O/P: 4 poles screw terminals	I/P: 3 poles, O/P: 6 poles screw terminals	
Dimensions (WxHxD)	40x125.2x113.5mm	63x125.2x113.5mm	85.5x125.2x113.5mm
Weight	0.65kg	1.06kg	1.7kg

WDR-120 Series



Model No.	Output	Tol.	R&N	Eff.
WDR-120-12	12V, 0~10A	±1.5%	120mV	89.5%
WDR-120-24	24V, 0~5A	±1.0%	120mV	91%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92%

WDR-480 Series



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

WDR-240 Series



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



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