

# DIN Series 60~480W Slim and Wide Input Range



## Features

- Single and two phase wide input range 180~550VAC
- Built-in active PFC function (WDR-240/480)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- DC output voltage adjustable
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35 / 7.5 or 15
- Over voltage category III (WDR-60)
- Operating altitude up to 5000 meters (WDR-60)
- EN61000-6-2(EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 3 years warranty

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

Model No.	WDR-60	WDR-120	WDR-240	WDR-480
AC input voltage range	180~550VAC(single and two phase); 254~780VDC			
AC input current	0.3A / 400VAC, 0.6A / 230VAC	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	5V: 5~6V, 12V: 12~15V, 24V: 24~29V, 48V: 48~57V	12V: 12~15V, 24V: 24~29V, 48V: 48~58V	24V: 24~28V, 48V: 48~55V	
Overload protection	Hiccup mode when output voltage <50%, constant current limiting within 50~100% rated output voltage, auto-recovery	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	5.7~7.5V for 5V model (WDR-60), 16~18V for 12V model, 29~33V for 24V model, 56~65V for 48V model		
	Type	Shut down o/p voltage, re-power on	Shut down o/p voltage, auto-recovery	Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down			
Withstand voltage	I/P-O/P:4kVAC, I/P-FG:2kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC, 1 minute	I/P-O/P:3kVAC, I/P-FG:1.5kVAC, O/P-FG:0.5kVAC, O/P-DC OK:0.5kVAC, 1 minute		
Isolation resistance	100MΩ(min.)@500VDC			
Working temperature	-30~+85°C	-25~+70°C	-30~+70°C (refer to output derating curve)	
DC OK signal	Relay Contact			
Safety standards	UL60601-1, TUV EN61558-2-16, EAC TP TC004		UL508, EAC TP TC 004 approved ; 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, EAC TP TC 020, heavy industry level			
Connection (screw DIN terminal)	I/P: 3 poles, O/P: 4 poles		I/P: 3 poles, O/P: 6 poles	
Dimension (WxHxD)(mm)	32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5

### 60W



Model No.	Output	Tol.	R&N	Effi.
WDR-60-05	5V, 0~10A	±1.5%	100mV	84.5%
WDR-60-12	12V, 0~5A	±1.5%	120mV	86.5%
WDR-60-24	24V, 0~2.5A	±1.0%	150mV	89.0%
WDR-60-48	48V, 0~1.25A	±1.0%	200mV	90.5%

### 240W



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%

### 120W



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%
WDR-120-48	48V, 0~2.5A	±1.0%	150mV	92%

### 480W



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%