

HDR Series 15W ~ 150W Slim Step Shaped DIN Rail



Replacement for DR-15, DR-30, DR-60, DR-100 stepped power supply units.



Also available in 5V, 12V, 15V and 48V

Power Supply Features

- **Compact size 1SU~4SU width (1SU = 18mm)**
- Universal AC input / Full range (277VAC operational)
- Protection: Short circuit / Overload / Over voltage
- Built-in constant current limiting circuit
- No load power consumption <0.3W
- **Class 2 power unit / pass LPS (limited power source)** (Except for HDR-100-xxN)
- Cooling by free air convection (-30~+70°C operation)
- Isolation class II, Over Voltage Category III
- Suitable for building automation and control
- LED indicator for power on
- **3 year warranty**



The HDR series fits DIN standard surface covers, metering enclosures and switchboards!

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



Model No.	HDR-15	HDR-30	HDR-60	HDR-100 N
AC input voltage range	85~264VAC (277VAC operational); 120~370VDC (390VDC operational)			
AC inrush current (max.)	Cold start, 45A at 230VAC		Cold start, 60A at 230VAC	Cold start, 70A at 230VAC
DC adjustment range	5V: 4.5~5.5V, 12V: 10.8~13.8V, 15V: 13.5~18V, 24V: 21.6~29V, 48V: 43.2~55.2V			12V: 12~13V, 15V: 15~17V, 24V: 24~25.5V, 48V: 48~48.7V 12V: 12~13.8V, 15V: 13.5~18V, 24V: 21.6~29V, 48V: 43.2~55.2V
Overload protection	Range	110~145%	105~160%	102~110% N: 105~150%
	Type	constant current limiting for 50~100% rated output voltage, hiccup mode on short-circuit, auto-recovery		
Over voltage protection	Range	115~150% 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: 4kVAC, Over Voltage Category (OVC) III, according to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000m			
Working temperature	-30°C ~ +70°C (refer to output load derating curve)			
Vibration	10~500Hz, 2G 10min./ 1 cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
Safety standards	UL508, UL62368-1, IEC62368-1, TUV BS EN/EN61558-2-16, EAC TP TC 004, BSMI CNS14336-1, AS/NZS60950.1 approved			
EMC standards	BS EN/EN55032 class B, EN61000-3-2,3, EN61000-6-2, EN61000-4-2,3,4,5,6,8,11, EN61204-3			
Connection	I/P and O/P: 2 pole screw DIN terminal		I/P: 2 pole, O/P: 4 pole screw DIN terminal	
Dimensions (WxHxD)	17.5(1SU) x90x54.5mm	35(2SU) x90x54.5mm	52.5(3SU) x90x54.5mm	70(4SU) x90x54.5mm
Weight	0.078kg	0.12kg	0.19kg	0.27kg

15W		HDR-15		
Model No.	Output	Tol.	R&N	Eff.
HDR-15-5	5V, 0~2.4A	±2%	80mV	80%
HDR-15-12	12V, 0~1.25A	±1%	120mV	85%
HDR-15-15	15V, 0~1.0A	±1%	120mV	85%
HDR-15-24	24V, 0~0.63A	±1%	150mV	86%
HDR-15-48	48V, 0~0.32A	±1%	240mV	87%

60W		HDR-60		
Model No.	Output	Tol.	R&N	Eff.
HDR-60-5	5V, 0~7.0A	±2%	80mV	85%
HDR-60-12	12V, 0~4.5A	±1%	120mV	88%
HDR-60-15	15V, 0~4.0A	±1%	120mV	89%
HDR-60-24	24V, 0~2.5A	±1%	150mV	90%
HDR-60-48	48V, 0~1.25A	±1%	240mV	91%

30W		HDR-30		
Model No.	Output	Tol.	R&N	Eff.
HDR-30-5	5V, 0~3.0A	±2%	80mV	82%
HDR-30-12	12V, 0~2.0A	±1%	120mV	88%
HDR-30-15	15V, 0~2.0A	±1%	120mV	89%
HDR-30-24	24V, 0~1.5A	±1%	150mV	89%
HDR-30-48	48V, 0~0.75A	±1%	240mV	90%

100W		HDR-100		
Model No.	Output	Tol.	R&N	Eff.
HDR-100-12	12V, 0~7.1A	±2%	120mV	88%
HDR-100-12N	12V, 0~7.5A	±2%	120mV	88%
HDR-100-15	15V, 0~6.13A	±1%	120mV	89%
HDR-100-15N	15V, 0~6.5A	±1%	120mV	89%
HDR-100-24	24V, 0~3.83A	±1%	150mV	90%
HDR-100-24N	24V, 0~4.2A	±1%	150mV	90%
HDR-100-48	48V, 0~1.92A	±1%	240mV	90%
HDR-100-48N	48V, 0~2.1A	±1%	240mV	90%



Energy Saving —

We care about saving energy. This logo indicates that the model has "low no-load power consumption"

HDR-100: 92W max., pass LPS
HDR-100-xxN: 100W max., non-LPS with a wide output range (adjustable)

HDR-150 Series 150W Slim Step Shaped DIN Rail



Power Supply Features

- **Compact size 6SU width (1SU = 18mm)**
- Universal AC input / Full range (277VAC operational)
- Protection: Short circuit / Overload / Over voltage
- Built-in constant current limiting circuit
- No load power consumption <0.3W
- **Class 2 power unit**
- Installed on DIN rail TS35 / 7.5 or 15
- Cooling by free air convection (-30~+70°C operation)
- Isolation class II, Over Voltage Category III
- LED indicator for power on
- **3 year warranty**

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



Model No.	HDR-150	
AC input voltage range	85~264VAC (277VAC operational); 120~370VDC (390VDC operational)	
AC inrush current (max.)	Cold start, 70A at 230VAC	
DC adjustment range	12V: 10.8~13.8V 15V: 13.5~18V 24V: 21.6~29V 48V: 43.2~55.2V	
Overload protection	Range	105~135%
	Type	constant current limiting for 50~100% rated output voltage, hiccup mode on short-circuit, auto-recovery
Over voltage protection	Range	115~150% rated output voltage
	Type	Shut down, re-power on to rec over
Withstand voltage	I/P-O/P: 4kVAC, Over Voltage Category (OVC) III, according to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000m	
Working temperature	-30°C ~ +70°C (refer to output load derating curve)	
Vibration	10~500Hz, 2G 10min./ 1 cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6	
Safety standards	UL62368-1, UL61010, TUV EN61558-2-16 , IEC62368-1, EAC TP TC 004 approved	
EMC standards	EN55032(CISPR32) class B, EN61000-3-2,3, EN55024, EN55035, EN61000-6-2, EN61204-3, EN61000-4-2,3,4,5,6,8,11	
Connection	I/P: 2 pole, O/P: 4 pole screw DIN terminal	
Dimensions (WxHxD)	105(6SU)x90x54.5mm	
Weight	0.31kg	

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150W		HDR-150		
Model No.	Output	Tol.	R&N	Eff.
HDR-150-12	12V, 0~11.3A*	±2%	100mV	89.0%
HDR-150-15	15V, 0~9.5A*	±1%	120mV	89.5%
HDR-150-24	24V, 0~6.25A*	±1%	150mV	90.5%
HDR-150-48	48V, 0~3.2A*	±1%	200mV	90.5%

*derate current output when operating from 115VAC (see data sheet)

