

Switch-mode Power Supply MDR

- ◆ Universal full-range AC input
- ◆ Short-circuit, over-load, and over-voltage protections
- ◆ Cooling by free air convection
- ◆ Built-in DC OK output signal
- ◆ 100% full load burn-in test
- ◆ 3 years warranty



Technical specifications

Input	
Voltage	85...264 VAC, 120...370 VDC
Frequency	47...63 Hz
Leakage current	< 1 mA at 240 VAC
Output	
DC voltage	see table below
DC OK signal:	
- 10...20 W	± 15...25% output voltage, 40 mA
- over 20 W	relay 30V/1A w/ NO contact
Setup time	500 ms
Isolation	3 kVAC, 100 MΩ at 500 VDC
Protection	
Over load	105...150% rated power
Over voltage	115...135% output voltage

Operating conditions	
Operating temperature	-20...70 °C
Operating humidity	20...90 %RH
Temperature drift	max. 0.03% for 1 °C within 0...50 °C
Vibrations	10...500 Hz, 2 G, 10 min/cycle, x/y/z
Indication and controls	
Front-panel trimmer ⁽¹⁾	for voltage adjustment, ± 10%
LEDs	LED for DC OK
Design and materials	
Case material	plastic
Wiring	screw terminals
Mounting	on 35 mm DIN rail
Protection class	IP20
Safety approvals	CE, UL

⁽¹⁾ Not available for variants '10' and '20'

Variant	10	20	40	60	100
Specifications					
Output voltage [VDC]	5 / 12 / 15 / 24	5 / 12 / 15 / 24	5 / 12 / 24 / 48	5 / 12 / 24 / 48	12 / 24 / 48
Rated current [A]	2.0 / 0.8 / 0.7 / 0.4	3.0 / 1.7 / 1.3 / 1	6.0 / 3.3 / 1.7 / 0.8	10.0 / 5.0 / 2.5 / 1.3	7.5 / 4.0 / 2.0
Rated power [W]	10 / 10 / 10 / 10	15 / 20 / 20 / 24	30 / 40 / 41 / 40	50 / 60 / 60 / 60	90 / 96 / 96
Voltage tolerance [±%]	5 / 3 / 3 / 2	2 / 1 / 1 / 1	2 / 1 / 1 / 1	2 / 1 / 1 / 1	1
Line regulation [±%]	1	1	1	1	1
Load regulation [±%]	5 / 3 / 3 / 2	1	1	1.5 / 1 / 1 / 1	1
AC voltage ripple [mVp-p]	80 / 120 / 120 / 150	80 / 120 / 120 / 150	80 / 120 / 150 / 200	80 / 120 / 150 / 200	120 / 150 / 200
AC input current [A]	0.3/115V, 0.2/230V	0.6/115V, 0.4/230V	1.1/115V, 0.7/230V	1.8/115V, 1.0/230V	1.3/115V, 0.8/230V
Efficiency [%]	77 / 81 / 81 / 84	76 / 80 / 81 / 84	78 / 86 / 88 / 88	78 / 86 / 88 / 87	85 / 86 / 88
Inrush current [A]	35/115V, 70/230V	20/115V, 40/230V	30/115V, 60/230V		30/115V, 60/230V
Hold-up time [ms]	25/115V, 120/230V	20/115V, 50/230V	20/115V, 50/230V		20/115V, 50/230V
Dimensions	22.5x90x100 mm		40x90x100 mm		55x90x100 mm
Weight	170 g	190 g	300 g	330 g	420 g

Ordering code MDR* - G11

Code	Feature or option	Code values
*	Variant	10, 20, 40, 60, 100
G11	Output voltage ⁽¹⁾	05 - 5 VDC, 12 - 5 VDC, 15 - 5 VDC, 24 - 24 VDC, 48 - 48 VDC, Z - other (specify!)

⁽¹⁾ Applicable for the selected variant

COMECO reserves the right of changing specifications without prior notice!