

Datasheet

RS PRO Primary Switched, 480 W

Stock No: 192-7579



Technical Specifications:

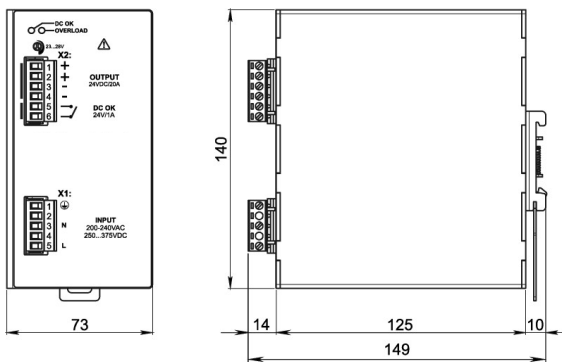
Input	
Number of phases	1
Rated voltage U_N	AC 200–240 V (UL certified)
Operation voltage range	AC 187–264 V / DC 250–375 V
Line frequency	47–63 Hz
Rated current I_N	2.9 A @ AC 200 V / 2.5 A @ AC 240 V 2.2 A @ DC 250 V / 1.5 A @ DC 375 V
Inrush peak current	$\leq 29 \text{ A} / 0.61 \text{ A}^2\text{s}$
Touch current (leakage current)	$\leq 0.5 \text{ mA}$
Internal fuse	No internal fuse, an external fuse must be provided.
External fuse	6,3AT or MCB 6A C-curve or 4A D-curve
	It is strongly recommended that external surge arresters (SPDs) be provided in accordance with local regulations.
Power factor correction P.F.C.	$>0,90$, enabled

Features & Benefits:

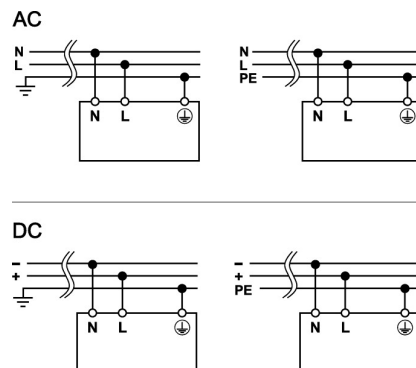
- 1 piece
- Power supply
- primary switched, 480 W
- Primary switchmode power supply, PFC, Single-phase
- Input: AC 187–264 V, DC 250–375 V
- Output: 24 V, adjustable output voltage range (DC 23–28 V)

- High efficiency and extremely compact dimensions
- Only 73 mm wide aluminium housing
- Active PFC (Power factor correction)
- Overload 150 %
- Constant current or hiccup mode limitation (in case of overload), user definable
- Excellent long lasting overvoltage withstand (up to AC 550 V)
- Usable for broad range of industrial, telecom and renewable energy applications
- Easy to connect in parallel to increase performance
- Up to 45 °C operating temperature without derating

Dimensions



PIN assignment



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Output	
Rated voltage U_N	DC24V
Rated current I_N	20 A
Overload limit in constant current mode	50 A
Max. output current	28 A, 5 s @ Hiccup Mode
Heat dissipation	<48 W
Setting range $U_{out\ min.}/U_{out\ max.}$	DC 23–28 V
Load regulation	≤ 1 %
Ripple and Noise	≤ 50 mV pp
	Ripple and noise are measured with 20 MHz bandwidth, the probe is terminated with a 0.1 μ F MKP parallel capacitor.
Hold up time	≥ 50 ms @ AC 240 V
Status indication DC ON LED green	≥ 21.6 V
Status indication DC LOW LED red	≤ 21.6 V
Parallel / redundant mode	yes/via external decoupling diode e.g. Part-No. 722999
	NOTE: Be sure to set the current limiting mode jumper to DC mode when connecting multiple devices in parallel.
Efficiency	>91 % @ AC 240 V
Overtemperature protection	yes
Over voltage protection	\geq DC 33 V ($U_A=24$ V)
Short circuit	Hiccup Mode

Technical Data

Monitoring	
DC ON Control (Rdy)	N/O contact
Switching voltage	AC/DC 300 V / DC 150 V
Switching current	AC/DC 1 A
Switching capacity	300 VA / 30 W
Isolation voltage	AC 500 V

General	
Insulation voltage input / output	DC 4.2 kV, 1 min.
Insulation voltage input / ground	DC 2.2 kV, 1 min.
Insulation voltage output / ground	DC 750 V, 1 min.
Derating	>45 °C: -10 W/°C @ AC 240 V
Operation temperature range	-40 °C ... +70 °C
	UL certified up to 45 °C
Storage temperature range	-40°C...80°C
Relative air humidity	5 – 95 %, non-condensing
Cooling	Air convection, 100 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	DIN rail mountable TS35
	(EN 60715)
Installation position	vertical
Protection class	IP20 (IEC 529 / EN 60529)
Protection class	I
Over voltage category	III (EN 50178)
Degree of pollution	2 (IEC 60664-1)
Weight	1 kg/piece
Connection type	Screw terminal
	0,20 mm ² – 2,5 mm ² / AWG 24 – 12
Strip length	6.0-7.5 mm / 0.24-0.30 in
Schraubendreher	3,0 × 0,5 mm
Tightening torque	0.5 – 0.6 Nm / 4.42 – 5.30 lbf in
Dimensions (w × h × d)	73×140×149 mm
Certifications	cULus (E249179)

Technical Data

General	
Standards	EN 60950 (Safety Standard, reference)
	EN 50178 (Safety Standard, reference)
	EN 55011 (CISPR11) Class B (EMC Emission)
	EN 55022 (CISPR22) Class B (EMC Emission)
	EN 60529 (Protection degree, IP20)
	IEC 61000-4-2/3/4/5/11 (EMC Immunity)
	IEC 60068-2-6 (Vibration sinusoidal), 5-17.8 Hz: ±1.6 mm, 17.8-500 Hz: 2 g 2 hours / axis (X,Y,Z)
	IEC 60068-2-27 (Shock), 30 g 6 ms, 20 g 11 ms, 3 bumps / direction, 18 bumps total
	Life-cycle expectancy
MTBF	MIL-HDBK-217F, > 500'000 h at 25 °C ambient full load
PU	1 piece