

Overview



- ✓ Strong overload without switch-off, up to 50% Flexible
- ✓ Power continuity: from 480 to 600 W
- ✓ Three type of modality protections:
 - Hiccup mode
 - Continuous Out Mode
 - Manual Reset
- ✓ DIN Rail Mountable
- ✓ Supports parallel connections for increased capacity
- ✓ Small size
- ✓ 3 Years warranty

Regulatory Compliance

- ✓ CE mark in conformity with EU Directives: EMC, LVD and RoHS.
- ✓ UKCA mark in conformity with UK S.I. 2016/1091, 2016/1101, 2012/3032.
- ✓ REACH Regulation 1907/2006.

Standards Conformity

- ✓ EN IEC 61010-2-201:2018 Safety requirements for electrical equipment for measurement, control and laboratory use.

EMC

- ✓ EMC Immunity EN 61000-6-2 for industrial environments:
 - EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
- ✓ EMC Emission EN 61000-6-4 for industrial environments (Class A)

Features

INPUT DATA	
Nominal Input Voltage (Vac) Manual select Input from 115 to 230	115 – 230 Vac
Input Voltage range: (115) (230)	90-135 Vac 170-264 Vac 238-370 Vdc
Inrush Current (Vn and In Load) I _{ti}	≤ 50 A ≤ 5 msec.
Frequency	47 – 63 Hz ±6%
Input Current (115 – 230 Vac)	8.5 – 4.2 A
Internal Fuse	T 10 A
External Fuse (recommended)	16 A (MCB curve B)

CLIMATIC DATA	
Ambient Temperature Operation	-25 up to +70 °C (>60° derating 2.5% °C)
Ambient Temperature Storage	-40 up to +85 °C
Humidity at 25 °C, no condensation	95 % to 25 °C

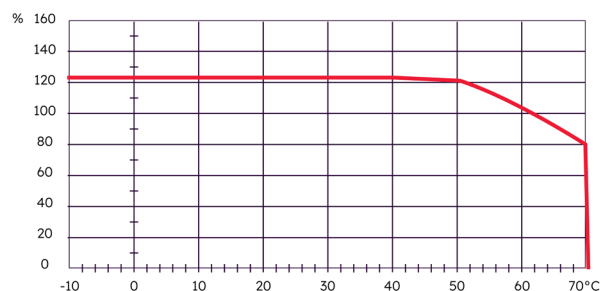
GENERAL DATA	
Isolation Voltage (In / Out)	3000 Vac
Isolation Voltage (In / PE)	1605 Vac
Isolation Voltage (Out / PE)	500 Vac
Protection Class (EN/IEC 60529)	IP 20
Reliability: MTBF IEC 61709	>500,000 h
Pollution Degree Environment	2
Connection Terminal Blocks Screw Type	4 mm ² (30-10 AWG)
Protection class	I with PE connected
Dimension (w-h-d)	3.3"x4.7"x5.5" 85x120x140 mm
Weight	42oz 1.2 kg approx.

Features

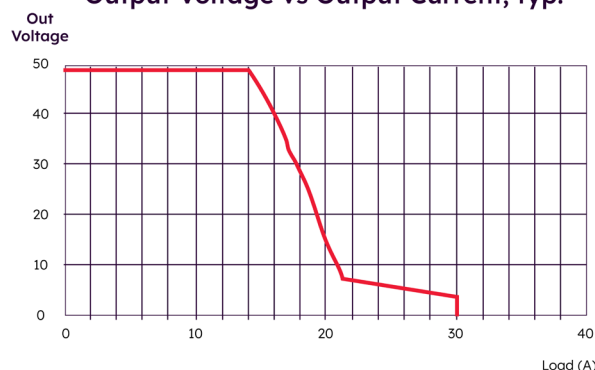
OUTPUT DATA

Output Voltage (Vn) Factory Setting $\pm 3\%$	48 Vdc
Adjustment range (Vadj)	41 – 55 Vdc
Start up with Strong Load (capacitive load)	$\leq 50.000\mu\text{F}$
Turn-On delay after applying mains voltage	1 sec. (max)
Rated Current at 48 V 40°C (In)	12 A (permanent)
Rated Current at 48 V 50°C (In)	11 A (permanent)
Rated Current at 48 V 60°C (In)	10 A (permanent)
Power Boost Current at 48 Vdc 60°C(In)	In 60°C x 1.5 ≥ 3 min.
Current max. Overload @ 4Vdc (permanent)	Imax=In60°Cx(1.8-2.2)
Current Short Circuit Icc - Max 2 sec.: Hiccup mode - Permanent : Continuous Mode	In 60°C x 3
Hold-up Time (min. Vac) 48Vdc 5A	Typ. 20 msec
Residual Ripple	$\leq 80 \text{ mV}_{pp}$
Efficiency	$\geq 91 \%$
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection	1° Manual Reset 2° Hiccup Mode 3° Continuous Out Mode
Dissipation power load max (W)	54
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 72 Vdc)
Parallel connection	Yes "Easy Parallel"
Power Good Contact rating (EN60947.4.1): Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A Min.1mA at 5 Vdc	Resistive load Min permissive load

Output Derating Curve
Continuous Load



Output Voltage vs Output Current, typ.



Ordering Information

Part Number	PS-A48500
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