

Overview



- ✓ Strong overload without switch-off, up to 50%
- ✓ Flexible Power continuity: from 240 to 345 W
- ✓ Three type of modality protections:
 - Hiccup mode
 - Continuous Out Mode
 - Manual Reset
- ✓ DIN Rail Mountable
- ✓ 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_t	≤ 16 A ≤ 5 msec.
Frequency	47 – 63 Hz ±6%
Input Current (115 – 230 Vac)	3.3 – 2.2 A
Internal Fuse	T 6.3 A
External Fuse (recommended)	16 A (curve B)

ENVIRONMENT

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 hrs
Pollution Degree Environment	2
Connection Terminal Blocks Screw Type	2,5 mm
Protection class	I with PE connected
Dimension (w-h-d)	2.8"x 4.5"x 5.3 72 x 115 x 135 mm
Weight	28 oz 0.8 kg approx.

Features

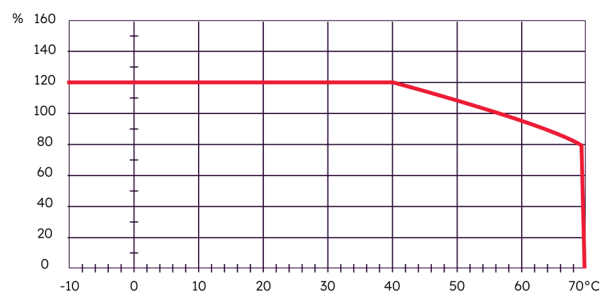
OUTPUT DATA

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)	7 A (permanent)
Rated Current at 48 V 50°C (In)	6 A (permanent)
Rated Current at 48 V 60°C (In)	5 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	≤ 80 mVpp
Efficiency	$\geq 91\%$
Over temperature Protection	Yes. Shut-down output and automatic restart.
Short-circuit protection (selectable options)	- Hiccup Mode - Continuous Out Mode - Manual Reset
Dissipation power load max (W)	28
Over Load protection	Yes
Over Voltage Output protection	Yes (typ. 72 Vdc)
Parallel connection	Yes "Easy Parallel"

Ordering Information

Part Number	PS-A48280
-------------	-----------

Output Derating Curve
Continuous Load



Output Voltage vs Output Current, typ.

