





Main Features

- / Miniature SMPS module PCB
- / 1, 2 or 3 phases input AC 110...500Vac
- J Wide input DC range 150...700Vdc
-) Aimed to be used as a miniature module for powering various systems with different primary needs
-) Potted
- J Low cost
-) Up to 65°C operating temperature with no derating



TECHNICAL DATA PSW5-5 Model typ OUTPUT DATA Rated voltage 5Vdc Adj. output voltage range 5Vdc Fixed Continuous current 1A Overload limit 1.25A Short circuit peak current 3A Load regulation ≤1% Ripple & Noise¹ ≤ 100mVpp Hold up time ≥ 20ms Overload/short circuit: Hiccup mode Protections Thermal protection INPUT DATA Nominal: 1/2/3 phases, 120...480Vac Input AC rated voltage Range: 110...500Vac Frequency 47...63Hz 150...700Vdc Input DC rated voltage Input AC rated current ≤ 120mA Input DC rated current Vin = 150Vdc ≤ 60mA Vin = 700Vdc ≤ 20mA **Power Factor Correction** Active > 0.9 Inrush peak current² / I²t ≤ 5A / 0.04A²s Touch (leakage) current ≤ 250µA Internal protection fuse Fuse Resistor on each line (not user replaceable) 3x 0.315AT / 500V or other suitable rated devices Recommended external protection It is strongly recommended to provide external surge arresters (SPD) according to local regulations. **GENERAL DATA** Efficiency > 70% < 300mW Dissipated power Operating temperature³ 40°C...+ 70°C Derating - 0.03W/°C over 65°C Storage temperature - 40°C...+ 80°C Humidity 5...95% r.H. non condensing Overvoltage category EN50178 Ш IEC60664-1 Pollution degree 2 Input / output isolation 4.2kVdc . UL508 (reference) Safety Standards EN60950 (reference) EN50178 . (reference) EN55011 (CISPR11) . Class A **EMC** Emission . EN55022 (CISPR22) Class A . EN61000-4-2 Level 3 EN61000-4-3 Level 2 EMC Immunity . EN61000-4-4 Level 4 . EN61000-4-5 Level 4 EN61000-4-11 Level 2 . Protection degree . EN60529 IP20 IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z) Vibration sinuosoidal . Shock . IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) Connection terminals Input In line pins 3 x raster 5.08mm Connection terminals Output In line pins 2 x raster 2.54mm Case material Plastic, Potted Weight 60g Size (W x H x D) 52.5 x 36.0 x 22.0mm 1) Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor Peak current measured after 0.2ms from main connection; 400Vac/50Hz; Ambient temperature at 25°C; Cold Start. 3) Start-up type tested: - 40°C, possible at nominal voltage with load deration.

Notes:

- Technical parameters are typical, measured in laboratory environment at 25°C and 240Vac / 50Hz, at nominal values, after minimum 5 minutes of operation.
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
- Data may change without prior notice in order to improve the product.







CONNECTION

