

This document must be retained for future reference.

It is the responsibility of the person installing the electrical equipment to ensure that the installation meets the requirements of the IET wiring regulations and is therefore 'fit for purpose'. Factors such as correct selection of components, cable sizing, protective devices and Earth bonding are all critical and should be checked prior to full testing and power-up. Any other regulations applicable to the equipment being installed such as the Machinery Directive and current health and safety legislation must also be adhered to.

All connections (including factory made) must be checked for the correct tightness prior to commissioning of the electrical installation. All connections should also be inspected periodically to ensure correct tightness.

DO NOT USE POWER TOOLS ON THESE PRODUCTS



Single Output Switch Mode Power Supplies 12V DC Output



Features:					
Universal AC input / Full range					
Protections: Short circuit / Overload / Over Voltage / Over temperature ZCSIZVS technology to reduce power dissipation					
Cooling by free air convection					
Can be installed on DIN rail TS-3517.5 OR 15					
DC OK LED or relay contact					
No load power consumption< 1W LED indicator for power on 100% full load burn-in test					
Specification	Model	SMP-20-12	SMP-60-12	SMP-100-12	SMP-120-12
DC Output , current		1.67A 12VDC	5A 12VDC	7.5A 12VDC	10A 12VDC
Input voltage range		85-264VAC - 120-370VDC			
Ripple, Noise		120mV p-p	120mV p-p	120mV p-p	85mV p-p
Line regulation		±1%	±1%	±1%	±0.5%
Load regulation		±1%	±1%	±1%	±0.5%
Efficiency		80%	80%	83%	80%
Adjustable voltage range		10%	10%	10%	10%
Irush current 115/230V		20/40A	30/60A	30/60A	20/40A
Power Factor (typ)		≥0.6@230vAC	≥0.6@230vAC	≥0.95@230vAC	≥0.6@230vAC
Overload Protection		105-150% Output disconnected, Auto recovery			
Over Voltage Protection		31.2-36V re-power on to recover			
Setup time ms		500	500	300	500
Rise time ms		30	30	50	70
Hold up time ms		30	30	50	30
Withstand voltage		I/P-OP:3KAC I/P-FG:1.5KVO/P-FG:0.5KV			
Isolation Resistance		I/P-O/P,I/P-FG,O/P-FG:> 100M Ω /500VDC/25oC/70%RH			
Working Temperature		- 10 -+ 50°C			
Dimensions (H X W X D)		90x22.5x100mm	90x40x100mm	90x55x100mm	125.5x65.5x100mm
Weight		0.19Kg	0.33Kg	0.42Kg	0.8Kg
EMC Conduction & Radiation		Compliance to EN55011, EN55022 (CISPR22), EN61204-3 Class B			
Harmonic Current		Compliance to EN61000-3-2, -3			
EMC Immunity		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A.			
Cooling		Ventilation/cooling is by natural convection and all sides should have a minimum of 25mm free space.			
Note:		All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			
		Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation.			
		The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.			
		Length of set up time is measured at first cold start. Turning ON / OFF the power supply may lead to increase of the set up time. Derating maybe needed under low input voltages, please check the derating curve for more detail.			