



180W INVERTERS FOR EQUIPMENT RACKS ('19 INCH' OR 'ETSI').
WITH 6 SEPARATE OUTLET SOCKETS FOR AUXILIARY EXCHANGE EQUIPMENT.
24V or 48V Input, 230V AC Output. Each Output Socket 30W Maximum.
 Isolated input for positive or negative ground systems.

Model No.	Rack Type	Output Sockets	Input Voltage	Output Voltage
SM5260	ETSI (4N High)	6 x UK (13A)	48V	230VAC RMS
SM5261	ETSI (4N High)	6 x SHUKO	48V	230VAC RMS
SM5262	ETSI (4N High)	6 x IEC	48V	230VAC RMS
SM5264	19 Inch (2U+ High)	6 x UK (13A)	48V	230VAC RMS
SM5265	19 Inch (2U+ High)	6 x SHUKO	48V	230VAC RMS
SM5266	19 Inch (2U+ High)	6 x IEC	48V	230VAC RMS
SM5268	ETSI (4N High)	6 x UK (13A)	24V	230VAC RMS
SM5269	19 Inch (2U+ High)	6 x UK (13A)	24V	230VAC RMS



FRONT



REAR

GENERAL. A low power source of AC mains is often needed for several items of auxiliary equipment in Telecoms Exchanges, where the main power source is nominally 24VDC or 48VDC. These inverters convert this DC voltage into normal 230VAC 50Hz mains.

Six standard sockets are provided, each rated for continuous use at 30W maximum. Short term, up to 100W may be taken from any one socket providing total power taken from all sockets does not exceed 200W. Maximum allowable live to neutral capacitance is 0.68uF per socket. To conform to normal UK wiring, the output sockets neutral and earth pins are connected to chassis ground.

Though conforming to standard rack sizes, the units are typically mounted on the rear frame of the rack at a level allowing access to main equipment. Note that the sockets are on the rear (inside) face of the unit. The units are 80mm deep.

These units are designed to be permanently installed with direct connection to the battery via a circuit breaker. The unit does not have its own on/off switch. Fixing is by standard rack hardware.

CONNECTION: The Exchange DC supply connects directly to a terminal block on the rear face of the unit. Maximum continuous input current is 5A. The supply must be protected at source by a fuse or MCB rated at 6A. Wire size should be chosen to restrict loop voltage drop to less than 0.5V. If in doubt, use wire having 2.5 square mm cross section. The 6mm ground stud must be connected to Safety Earth using local Exchange rules.

SPECIFICATION

OUTPUT: 230VAC RMS Nominal, 48Hz – 53Hz, 216 - 255 VAC RMS over load and input range.

The continuous power available is 180W, distributed across 6 sockets, each one restricted to 30W maximum. Any socket can supply 100W short term, providing total power taken does not exceed 200W. Maximum permissible load capacitance, Live to Neutral, is 0.68uF per socket.

INPUT: Battery, 24V (22V to 30V) or 48V (44V to 60V). Nominal battery voltage, -8.3% to +25% continuous, -12% to +31% for 10 seconds. Efficiency is higher than 85% on a resistive load. The unit will draw about 6W unloaded.

SELF PROTECTION SYSTEM: Over-current protection is provided, so that if plugged into unsuitable equipment, the inverter will not be damaged. When used in accordance with these instructions the output cannot damage any appliance.

TEMPERATURE RANGE:
 -20 to +55C operating, -40 to +70C storage.

CAUTION: This adaptor is supplied based on the user determining the suitability for the purpose for which it is to be used. Do not reverse battery polarity. Do not use for life dependent applications. We reserve the right to change the specification without notice.

Document 5260-993.

We manufacture a wide range of DC-DC converters, DC-AC (mains) inverters and many other power systems.

We specialise in the custom design of Hydrogen Stack converters up to 10KW.