

FEATURES

- LCD display shows input & output data, faulty code
- Reverse input polarity is controlled by mosfet without burning fuse
- Input & output isolation with EMI filtering design
- Monitoring on computer by RS 485 communication protocol
- Parameters could be adjusted by end user on LCD panel

RS PRO Fixed Installation DC-AC Power Inverter 48Vdc to 230Vac 2000W

RS Stock No.: 2685152



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

Please provide an introduction to the product with relevant details stating:

- Used for television, computer, fan and phone charging
- Applications: vehicles and solar system
- IP 22 and used indoors only

General Specifications

Model	(Note : not MPN)
Inverter Directionality	single
Number of Output	2
Output Connection Type	Universal Socket
Mounting Type	Chassis Mount
MTBF	86852Khrs min. MIL-HDBK-217F (25°C)
Cooling Method	Loading Controlled Cooling Fan, >50°C (NTC)
Battery Low Alarm	42 ± 2V
Battery Low Shutdown	40 ± 2V
Over Temperature Protection	60 ±5°C / 140 ±9°F
Over Voltage Protection	60 ~ 64V
Overload Protection	>2400W shut down o/p voltage, re-power on to recover
Reverse Polarity Protection	Yes
Short Circuit Protection	Shut-off
Soft Start	Yes
ON/OFF Switch	Yes
Railway Approved	No
Interface	RS485 / USB
Applications	Home appliances, Power tools, Office and Portable equipment

Electrical Specifications

Output Specifications	
AC Voltage	230V
Rated Power	2000W
Peak Power	2400W (30 minutes)
Surge Power	4000W
Rated Output Current	8.69A
Waveform	Pure Sine Wave
Frequency Range	60Hz / 50Hz (Button Selectable)
Number of Output Connection	2
Output Electrical Phase	Single Phase
Output Regulation	±5%
Efficiency	92% maximum
Standby Power Dissipation	<1.6A
Standard Receptacles	Universal socket *2

Input Specifications	
DC Voltage	48V
Maximum DC Current	50A
No Load Current Draw	<1.6A
Voltage Range	40VDC to 64VDC
Efficiency	92% maximum
Battery Rating	48V Nominal
DC Connector	M10 bolt
Voltage Regulation	40-64VDC
Fuse	10A*8
Isolation Resistance	I/P-O/P:1000 Ohms / 500VDC / 25°C / 70% RH

Signal and Control	
LCD Panel	1 Line LCD Panel with Keyboard for Navigation
LED Indicator	Green LED for power on; Red LED for power failure status
Dry Contact Terminal	N/A
Remote Control Terminal	YES, ON/OFF controlled by an external switch

Transfer Relay	
Relay Specification	N/A
By Pass Relay	N/A
Switching Time	N/A

Mechanical Specifications

Housing Material	Anodized aluminum case + PC side panel
Dimension	422mm x 245mm x 113mm
Length	422mm
Width	245mm
Depth	113mm
Lead Length	530mm
Weight	4.83kg

Operation Environment Specifications

Operating Humidity	10% to 95% RH non-condensing
Cooling	Natural convection
Operating Temperature Range	-20 to 50°C
Storage Temperature Range	-30 to 70°C
Temperature Coefficient	± 0.05% / C
Altitude During Operation	5000m
Vibration Resistance	2g 15 mins/sweep, 60 mins for each of 3 axes
Shock Resistance	0.7m drop onto concrete on each of 6 axes

Protection Category

IP Rating	IP22
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Classification

eCl@ss Version	N/A
UNSPSC Version	N/A
ETIM Version	N/A

Approvals

Compliance/Certifications	CE / RoHS/UKCA
Declarations	REACH