

2U Rack Mount Inverter 2kVA

Main Features

- R Load Pure sine wave output (THD < 3%)
- LED display
- Power factor: 1
- 12V, 24V, 48V, 110V & 220VDC Input Voltages
- 115VAC or 230VAC Output Voltages
- Static Transfer Switch Built-in
- Output frequency: 50 / 60Hz switch
- RS-232 interface / Wire connection to PC
- Relay Alarm Output
- Loading & Temperature controlled cooling fan
- -20 to +50C° Operating temperature range
- **Optional SNMP Management**



RM-PSW2KVA(2U) 2000VA/2000W Series Pure Sine Wave Inverter

The RM-PSW2kVA Series are 2U Rack Mount 2kVA sine-wave inverters. 12V/24/48/110/220VDC models with 220 or 110VAC output. The pure sine wave output is produced by a DSP controlled power circuit, using high power PWM, which allows efficiency higher than 86%, and very low distortion, even with reactive loads.

The voltage is user selectable: 220/230/240V RMS \pm 3%, allowing for the best setting for customer equipment. In normal operation these inverters isolate the load from wide voltage swings, transients and noise usually present in the mains and which can cause equipment reliability problems. Output voltage and frequency are programmable from the front panel, as well as from the RS232 communications interface which can be used for remote monitoring.

The Bypass / Transfer function, allows for automatic transfer of the load (in the event of inverter or DC Failure) from the inverter to the utility AC supply, thus providing a high level of system reliability. With a range of protection features such as 'Auto shut-down' that prevents total battery discharge, and the extremely low input current draw when output is not powering equipment ensures maximum battery capacity at all times.

OPTIONS

- SNMP
- AC output sockets (just for models without SNMP)
- Terminal strip covers

* **Optional AC Output Terminals.** Universal, Australia-New Zealand, United Kingdom, North America, IEC60320-C13, AC Terminal Strip, IEC 0723-CQ. **If inverter is installed with SNMP, only the AC output terminal strip is available.** Some combinations are possible, contact our sales engineers for further information.

REAR PANEL DETAIL

Model with 1X AC Terminal Strip + 1X IEC Socket (without SNMP shown)



APPLICATIONS

- Computers, communications & control equipment, SCADA, test equipment, field instrumentation, factory automation systems, networking and telecom equipment.
- Power tools, drills, air compressors
- Lamps, fluorescent lights, vacuum cleaners, microwave ovens, refrigerators
- Televisions, home theaters, game consoles, satellite equipment.

| Specification | 220VAC Output Voltage Models | | | | |
|---------------------------------------|--|-----------------------|-----------------------|------------------------|------------------------|
| Model Number | RM-PSW122KVAE (2U) | RM-PSW242KVAE (2U) | RM-PSW482KVAE (2U) | RM-PSW1102KVAE (2U) | RM-PSW2202KVAE (2U) |
| Output Power | 2000W | | | | |
| Surge Rating | 2300W/1Min and 2500W/3Sec | | | | |
| Input Voltage | 12V | 24V | 48V | 110V | 220V |
| Frequency | 50/60Hz ± 0.05% (Switch Selectable) | | | | |
| Peak Output Current | 18A | | | | |
| Efficiency (full load) | 87% | 90% | 92% | 94% | 94% |
| No Load Current Draw | 1.79A | 0.87A | 0.4A | 0.4A | 0.2A |
| Output Waveform | R Load Pure Sine Wave <3% THD | | | | |
| Output Voltage | 200~240V (Tune VR) | | | | |
| Input Voltage Range | 10-16VDC | 20-32VDC | 42-62VDC | 90-140VDC | 180-275VDC |
| DC Input over voltage alarm | 15.5VDC | 31VDC | 61VDC | 135VDC | 270VDC |
| DC Input over voltage shut-down | 16VDC | 32VDC | 62VDC | 140VDC | 275VDC |
| DC Input under voltage alarm | 10.5VDC | 21VDC | 43VDC | 95VDC | 185VDC |
| DC Input under voltage shut-down | 10VDC | 20VDC | 42VDC | 90VDC | 180VDC |
| Protections | Overload, Short Circuit, Reverse Polarity (Fuse), Input Undervoltage, Input Overvoltage, Over Temperature | | | | |
| Digital Display | Output Voltage, Output Current, Output Power, Output Frequency, Input Voltage, Temperature, Alarms | | | | |
| Interface Control Port | RS-232C, Switch Selectable Baud Rate: 2400, 4800, 9600, 19200 (Switch Selectable) | | | | |
| SNMP | Optional , if installed just only the AC output terminal strip is available | | | | |
| Remote ON/OFF | Optional | Optional | Optional | Can't Support | Can't Support |
| Static Transfer Switch | | | | | |
| AC Input Range | 220VAC | | | | |
| AC Input Frequency | (50Hz ~ 60 Hz) ± 3% | | | | |
| Transfer Time | 4-6ms | | | | |
| Alarm Relay | Form-C dry contacts, indicates presence of AC Utility supply | | | | |
| Physical | | | | | |
| Operating Temperature | -20°C to 50°C | | | | |
| Storage Temperature | -30°C to 70°C | | | | |
| Cooling | Temperature Controlled Cooling Fan | | | | |
| Dimensions | 435(L) × 424(W) × 88(H) mm | | | | |
| Weight | 12.8kg | | | | |
| Available AC Output Sockets (options) | Universal, Australia-New Zealand, United Kingdom, North America, IEC60320-C13, AC Terminal Strip, IEC 0723-CQ * Some combinations are possible, ask our sales engineers for further information | | | | |
| Compliance | | | | | |
| Safety | EN60950-1 | | | | |
| EMC | EN 55022: 2006, Class A EN 61000-3-2: 2006 EN 61000-3-3: 1995+ A1:2001+A2:2005 | | | | |

| Specification | 110VAC Output Voltage Models | | | | |
|---------------------------------------|--|------------------|------------------|-------------------|-------------------|
| Model Number | RM-PSW122KVA(2U) | RM-PSW242KVA(2U) | RM-PSW482KVA(2U) | RM-PSW1102KVA(2U) | RM-PSW2202KVA(2U) |
| Output Power | 2000W | | | | |
| Surge Rating | 2300W/1Min and 2500W/3Sec | | | | |
| Input Voltage | 12V | 24V | 48V | 110V | 220V |
| Frequency | 50/60Hz ± 0.05% (Switch Selectable) | | | | |
| Peak Output Current | 36A | | | | |
| Efficiency (full load) | 86% | 88% | 89% | 94% | 94% |
| No Load Current Draw | 1.25A | 0.56A | 0.4A | 0.4A | 0.2A |
| Output Waveform | R Load Pure Sine Wave <3% THD | | | | |
| Output Voltage | 100~120V (Tune VR) | | | | |
| Input Voltage Range | 10-16VDC | 20-32VDC | 42-62VDC | 90-140VDC | 180-275VDC |
| DC Input over voltage alarm | 15.5VDC | 31VDC | 61VDC | 135VDC | 270VDC |
| DC Input over voltage shut-down | 16VDC | 32VDC | 62VDC | 140VDC | 275VDC |
| DC Input under voltage alarm | 10.5VDC | 21VDC | 43VDC | 95VDC | 185VDC |
| DC Input under voltage shut-down | 10VDC | 20VDC | 42VDC | 90VDC | 180VDC |
| Protections | Overload, Short Circuit, Reverse Polarity (Fuse), Input Undervoltage, Input Overvoltage, Over Temperature | | | | |
| Digital Display | Output Voltage, Output Current, Output Power, Output Frequency, Input Voltage, Temperature, Alarms | | | | |
| Interface Control Port | RS-232C, Switch Selectable Baud Rate: 2400, 4800, 9600, 19200 (Switch Selectable) | | | | |
| SNMP | Optional , if installed just only the AC output terminal strip is available | | | | |
| Remote ON/OFF | Optional | Optional | Optional | Can't Support | Can't Support |
| Static Transfer Switch | | | | | |
| AC Input Range | 110VAC | | | | |
| AC Input Frequency | (50Hz ~ 60 Hz) ± 3% | | | | |
| Transfer Time | 4-6ms | | | | |
| Alarm Relay | Form-C dry contacts, indicates presence of AC Utility supply | | | | |
| Physical | | | | | |
| Operating Temperature | -20°C to 50°C | | | | |
| Storage Temperature | -30°C to 70°C | | | | |
| Cooling | Temperature Controlled Cooling Fan | | | | |
| Dimensions | 435(L) ×424(W) ×88(H) mm | | | | |
| Weight | 12.8kg | | | | |
| Available AC Output Sockets (options) | Universal, Australia-New Zealand, United Kingdom, North America, IEC60320-C13, AC Terminal Strip, IEC 0723-CQ * Some combinations are possible, ask our sales engineers for further information | | | | |
| Compliance | | | | | |
| Safety | EN60950-1 | | | | |
| EMC | EN 55022: 2006, Class A EN 61000-3-2: 2006 EN 61000-3-3: 1995+ A1:2001+A2:2005 | | | | |