

JSM POWER CONVERSION CC

REG NO. 2004/119440/23

For the development and production of power electronic products

Specification Sheet 5 kVA, 36Vdc – 230Vac Inverter

Specifications

Nominal Battery Voltage	:	36 Vdc
Input Voltage Range	:	30 – 70 Vdc
Operating Voltage Range	:	31.5 - 50 Vdc
Output Voltage	:	220 – 230 Vac Settable, 50 Hz
Waveform	:	Pure Sine Wave
Total Harmonic Distortion	:	< 3%
Continuous Power @25°C	:	5000 VA
Output Power	:	10 kVA (44A) for 9 s
Maximum Output Power	:	15 kVA for 5 s
Efficiency	:	>90%
Power Consumption-Puls Mode	:	5W
Power Consumption – ON	:	34W
Dimensions (dxhxw)	:	370mm x 260mm x 600mm



Weight	:	44 kg
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Protection features

Over Load Protection	:	Electronic
	:	DC Circuit breaker
	:	AC Circuit breaker
Over Voltage Protection	:	50 V
Under Voltage Protection	:	Settable (31.5V – 34.5V)
Short Circuit Protection	:	92 A(peak)
Over Temperature Protection	:	>85°C
Lightning Protection	:	Transorb's clamping voltage spikes to
	:	protect inverter. It is however advised to
	:	use additional surge arrestors, especially
	:	in areas where lightning is a problem.

Other features

Zero spark connection	:	Charge DC Bus with resistor
Cooling	:	Temperature controlled fan
Load Sensing	:	Switch on power is settable(2W – 10W)
Input Connection(DC)	:	1.45 m flying leads
Output Connection(AC)	:	2x16A plugs + Connector block

Plug-in Keypad and LCD Display

On the front panel is a DB15 connector, where an optional User Interface can be connected for viewing parameters and to change the settable parameters. The factory settings are also shown below.

Displayed Parameters	1.	Battery Voltage
	2.	Inverter Output Voltage
	3.	Heat sink Temperature
	4.	Output Current
	5.	Output Power

Settable Parameters	1.	Output Voltage (220V – 230V) - <u>225 V</u>
	2.	Battery Low (33.4V – 34.4V) - <u>33.9 V</u>
	3.	Battery Low time (1 – 20 s) - <u>3 s</u>
	4.	Battery Reconnect1 (36V – 40V) - <u>36.4 V</u>
	5.	Battery Reconnect2(36V – 40V) - <u>38.5 V</u>
	6.	Battery Reconnect Delay(0 – 10 min) - <u>5 min</u>
	7.	Load Sense Watts switch on - <u>6 W</u>

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