

## MODEL : MAK 650VA/12VDC DIGITAL INVERTER

### TECHNICAL SPECIFICATION

<b>CAPACITY</b>	650 VA
<b>VOLTAGE LIMITS</b>	
Mains A.C Low Cut	105 $\pm$ 10V
Mains A.C Low Cut Recovery	120 $\pm$ 10V
Mains A.C High Cut	285 $\pm$ 10V
Mains A.C High Cut Recovery	275 $\pm$ 10V
<b>CHANGE OVERTIME *</b>	
Mains to Inverter	40ms
Inverter to Mains	10ms
<b>INVERTER MODE</b>	
Output Voltage Range with Specified Load	175 V - 260 V
<b>OUTPUT FREQUENCY</b>	
Inverter Output Frequency	50.0 $\pm$ 0.1 Hz
Mains Output Frequency	Same as Input
<b>OUTPUT WAVEFORM</b>	
Output Waveform in Mains Mode	Same as Input
Output Waveform in Inverter Mode with Soft Start	Quasi Sine Wave
Full Load At	36.0 A $\pm$ 3.0 A DC Current (3 Tube + 3 Fan) or (1 TV + 3 Tube + 3 Fan)
<b>BATTERY LOWER VOLTAGE CUT</b>	10.2V $\pm$ 0.2V (Depending on Load)

Specifications are subject to change without prior notice.

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#### BATTERY CHARGING

Pwm Controlled SCR Charging with Soft Start	
Over full range of mains 150V to 280V.	
Maximum Charging Current Limit (NC Mode)	9.0 A $\pm$ 1.0 A
Maximum Charging Current Limit (HC Mode)	13 A $\pm$ 1.0A
Minimum Charging Current Limit	1.0 A $\pm$ 0.5 A (Float Charge)
Top Charging Voltage Limit	13.9V $\pm$ 0.2V
Battery Charged Upper Voltage Limit	13.6 V $\pm$ 0.2V

#### OVER LOAD AND SHORT CIRCUIT PROTECTION

Over Load Protection with	105%-120% Load (5-40 SEC)
8-Times Auto-Reset Feature	120%-150% Load (2-10 SEC)
	150%-200% Load (1-4 SEC)
Short Circuit Protection with	>200% Load (FEW MSEC)
4-Times Auto-Reset Feature	O/P L/N Short (FEW MSEC)

#### LED DISPLAY OF DIFFERENT MESSAGES AND FAULTY CONDITIONS

Mains On (Continues On)/Mains Fuse Blown (Blinking)	
Battery Charging / Charged	
Inverter On	
Battery Low	
Over Load/Short Circuit	

#### OTHER FEATURES

Inverter On/Off Switch Sensing	
Mains Fuse Blown Sensing	
Automatic Switching from Mains to Inverter and Vice Versa.	
Indication of System Protection Conditions with Different Tone Through Buzzer	

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