

MODEL : MAK 1500VA/24VDC DIGITAL INVERTER

TECHNICAL SPECIFICATION

CAPACITY	1500 VA
VOLTAGE LIMITS	
Mains A.C Low Cut	105 ±10V
Mains A.C Low Cut Recovery	120 ±10V
Mains A.C High Cut	285 ±10V
Mains A.C High Cut Recovery	275±10V
CHANGE OVERTIME *	
Mains to Inverter	40ms
Inverter to Mains	10ms
OUTPUT WAVEFORM	
Mains Output Frequency (45Hz - 55 Hz)	Same as Input
Output Waveform in Mains Mode	Same as Input
Output Waveform in Inverter Mode with Soft Start	Quasi Sine Wave
INVERTER MODE	
Output Voltage Range with Specified Load	175V - 250V
Inverter Output Frequency	50.0 ± 0.1 Hz
No Load Current	<1A
Full Load At	47.0 A ± 3.0 A DC Current
BATTERY LOWER VOLTAGE CUT	20.4V ± 0.4V (Depending on Load)

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BATTERY CHARGING	
Pwm Controlled SCR Charging with Soft Start Over full range of mains 140V to 280V.	
Maximum Charging Current Limit (NC Mode)	9.0 A ± 1.0 A
Maximum Charging Current Limit (HC Mode)	13 A ± 1.0A
Minimum Charging Current Limit	1.0 A ± 0.5 A (Float Charge)
Top Charging Voltage Limit	28.4V ± 0.0.4V
Battery Flot Voltage Limit	27.4V ± 0.4V
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)
GRAPHICAL 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	