

TORQUE 650VA/12VDC DIGITAL HOME UPS

TECHNICAL SPECIFICATION

CAPACITY	650VA
MAINS UPS MODE (SWITCH POSITION TOWARDS UPS MODE)	
Mains A.C Low Cut	185 ± 10V
Mains A.C Low Cut Recovery	190 ± 10V
Mains A.C High Cut	265 ± 10V
Mains A.C High Cut Recovery	260 ± 10V
CHANGE OVER TIME *	
Mains to Inverter	<15ms
MAINS W-UPS MODE (SWITCH POSITION TOWARDS W-UPS MODE)	
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 OVER TIME *	
Mains to Inverter	<40ms
INVERTER MODE	
Output Voltage Range with Specified Load	175V - 260V
OUTPUT FREQUENCY	
Inverter Output Frequency	50.0 ± 0.1 Hz
Mains Output Frequency	Same as Input
OUTPUT WAVEFORM	
Output Wave form in Mains Mode	Same as Input
Output Wave form in Inverter Mode with Soft Start	Quasi Sine Wave
Full Load At	36.0A ± 3.0 A DC Current
BATTERY LOWER VOLTAGE CUT	10.2V ± 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 140V to 280V.	
Maximum Charging Current Limit (NC Mode)	9.0A ± 1.0A
Maximum Charging Current Limit (HC Mode)	13A ± 1.0A
Minimum Charging Current Limit	1.0A ± 0.5 A (Float Charge)
Top Charging Voltage Limit	13.9V ± 0.2V
Battery Charged Upper Voltage Limit	13.6V ± 0.2V
OVER LOAD AND SHORT CIRCUIT PROTECTION	
Overload Protection with 8 -Times Auto-Reset Feature	105% -120% Load (5-40 SEC) 120% -150% Load (2-10 SEC) 150% -200% Load (1-4 SEC)
Short Circuit Protection with 4 -Times Auto-Reset Feature	>200% Load (FEW MSEC) 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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