

Parameters		Units	Rating			
System Rating		KVA	2	2	3	5
Operating DC Voltage		V	24	48	48	96
Photovoltage Input						
Input Voltage Range (Min-Max)		VDC	45-90	80-230		160-450
Maximum PV Power Recommended		KW	2.0		3.0	5.0
Number of Charge Controller			1			
Solar Charge Controller Rating		A	80	40	60	100
MPPT Based Charge Controller						
Switching Element			MOSFET	IGBT		
Controller				DSP		
Type of Charger				MPPT		
Efficiency		%	95			
Parameter			Default Value			
Battery Low Buzzer		V	10.2			
Battery Low Cut		V	10.0			
Battery High Cut		V	15.5			
Battery Charging Voltage by SPV		V	14.5			
Battery Charging Current by SPV		A	18			
Battery Charging Voltage by GRID		V	14.2			
Battery Charging Current by GRID		A	10			
Grid Low Cut Voltage (IT Load Disable/Enable)		V	120/175			
Grid High Cut Voltage (IT Load Disable/Enable)		V	280/260			
Output Voltage Low		V	185			
Output Voltage High		V	260			
Grid Disconnect (Solar Available)			@14.5 / Battery for 2 minutes OR 13.5/Battery-100% Current			
Grid Reconnect (PCU Mode/Smart Mode)		V	11.5			
No Load Shut Down		W	<10			
Grid Charger	Configurable		Enable / Disable, Default-Enable			
No Load Shut Down			Enable / Disable, Default-Disalbe			
IT Load			Enable / Disable, Default-Disalbe			
Operating Mode			SMART/PCU/HYBRID, Default-SMART			
Input Source			GRID/GENSET, Default-GRID			
Inverter						
Switching Element			MOSFET			
Control			PWM			
Nominal Output Voltage		VAC	230			
Output Supply Phase			1 phase, 3 wire			
Output Waveform			Pure Sine Wave			
Nominal Frequency		Hz	50.0			
Load Current		A	6.1	9.1	15.2	
Voltage Regulation (No Load to Full Load)		%	<1			
Output Voltage Distortion with 100% Linear Load		%	<3			
*Overload Capacity (IT LOAD ENABLE)		%	100-110 : 10 min 110-120 : 2 min 120-150 : 30 sec	150-250 : 2sec 250-350 : 1sec >350 : 20ms	(100-150 10 Min in Gamma 2kVA/48V)	
*Overload Capacity (IT LOAD DISABLE)		%	100-120(3time auto reset): 60sec 120-150(3time auto reset): 30sec 150-250 : 2sec	250-350 : 1sec >350 : 20ms	(100-150 10 Min in Gamma 2kVA/48V)	
Peak Efficiency		%	85	88		
Noise @ 1meter		dB	50			
Cooling			Temp Controlled, Fan			
Protections			Overload, Battery low, Battery high, Output low, Output high, Output Short Circuit, Overheat, Under Frequency, Over Frequency, Solar panel reverse			
Display Parameters			Battery Voltage, Charging Current, Discharging Current* Solar Voltage, Solar Current, Instantaneous Power, Grid Voltage, I/P Frequency Output Voltage, Output Load% O/P Frequency Grid, Inverter & SPV Charger Status			
Switches			Reset for System ON/OFF, up, Down, Back, Enter (for LCD Configuration)			
Indications			System ON, Inv. ON, SPV Charging, Grid Charging, Batt. Low/High, Overload, Overheat, Mains Low, Mains High, Under frequency, Over frequency, (IT Mode, Grid Charging, NLSD, Boost Chg.,DG Mode)Enable/Disable*, Fault			
Environment						
Operating Temperature		°C	0-50			
Max Relative Humidity @25°C (non condensing)		%	95			
Dimension (L X W X H)		Inch	18 X 10 X 17	15 X 11 X 14	18 X 10 X 17	
Weight		Kg.	30	27	39	55