

PRODUCT SPECIFICATIONS

MODEL NAME	850VA	1050VA	1250VA	1500VA	2675VA	3250VA	3500VA	5500VA	5500VA	6000VA	7500VA	10000VA		
MAINS INPUT MODE														
Mains AC low cut UPS mode							175VAC ± 10VAC							
Mains AC low cut recovery UPS mode							185VAC ± 10VAC							
Mains AC high cut UPS mode							265VAC ± 10VAC							
Mains AC high cut recovery UPS mode							255VAC ± 10VAC							
Mains AC low cut WUPS mode							90VAC ± 10VAC							
Mains AC low cut recovery W.UPS mode							110VAC ± 10VAC							
Mains AC high cut WUPS mode							295VAC ± 10VAC							
Mains AC high cut recovery W.UPS mode							285VAC ± 10VAC							
Input Frequency Range							40Hz to 60Hz							
Voltage Output in Mains Mode							Same as input							
Frequency Output in Mains Mode							Same as input							
BATTERY														
Battery Type	LA / Tubular / SMF													
DC input voltage	12V			24V			48V			96V	72V	96V	120V	
Battery Quantity 12V 100Ah to 220Ah	1			2			4			8	6	8	10	
Float charging voltage	13.7V±0.2V			27.4V± 0.2V			54.8V±0.4V			109.6V±0.4V	82.2V±0.4V	109.6V±0.4V	137V±0.4V	
Bulk absorption Voltage	14.8V±0.2V						59.2V±0.4V			118V±0.4V	88.8V±0.4V	118V±0.4V	148V±0.4V	
Boost charging voltage for LA Battery	14.0V±0.2V			28.0V±0.3V		28.0V±0.2V		56.0V±0.4V			111.5V±0.5V	83.5V±0.5V	111.5V±0.5V	139.5V±0.5V
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V			29.0V±0.2V		29.0V±0.2V		57.8V±0.4V			115.5V±0.5V	86.5V±0.5V	115.5V±0.5V	144.5V±0.5V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)													
Charging Current at Grid priority/Battery priority	15A ± 3A						13A ± 3A							
Grid Charging Enable/Disable Option							Yes							
BACKUP MODE														
Output voltage	220VAC +5% -10%													
Output frequency	50Hz ± 0.2 Hz													
Output waveform	Pure Sine Wave ≤ 5% THD													
No Load current	<1.8A													
Discharging current @ full load	40A ± 2A	50A ± 2A	60A ±3A	90 ±3A	70 ±2A	90 ±3A	60A ± 2A	90A ± 2A	46A ± 2A	66A ± 2A	66± 2A	66A ± 2A		
Low Battery Warning	10.8±0.2V			21.4V ± 0.2V			43.2V±0.4V			43.2V±0.4V	86.4V±0.5V	64.8V±0.5V	86.4V±0.5V	108±0.5V
Low Battery Cut	10.4V±0.2V			21V ± 0.2V			41.6V±0.4V			41.6V±0.4V	83.2V±0.5V	62.4V±0.5V	83.2V±0.5V	104V±0.5V
Change over time UPS mode	< 10msec						< 4msec							
Change over time WUPS mode	< 25msec													
PROTECTION														
Phase to Phase Voltage Protection	Mains Mode													
Back feed protection	Mains apply in output side@<295V													
Over Load system Shutdown	> 130% after approx >180sec, and > 300% system will be shutdown approx < 20 Sec.													
Short Circuit (A PK-PK)	Yes, After 3 tries system will be shutdown (System reset from front switch)													
Reverse Battery	DC Fuse Burn						Battery MCB will trip							
SCC Reverse Battery	DC Fuse Burn						Battery MCB will trip							
Short Circuit in Mains Mode	Mains Fuse will blown						Mains MCB Trip							
Battery Over Charge	Yes, Provided													
High PV Voltage	55V ± 2V													
Reverse PV Connected	Yes, Provided													
Over Charge Protection	Yes, Provided													
Over Current Protection PV	Yes, Provided													
SOLAR CHARGE CONTROLLER														
Solar Charge Controller type	PWM type													
Max Panel wattage can be connected	600W	800W	1200W	2400W	3000W	4000W	6500W	4500W	6500W	6500W	8000W	8000W		
Max PV current	25A	40A	70A	70A	50A	70A	50A	50A	50A	50A	50A	50A		
Reverse PV protection	Yes provided													
Reverse current flow to PV	Yes provided													
Sharing of current when PV and Grid Both are available	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.													
Option for Grid and Battery priority	Yes, provided, user can set priority for Battery or Grid. Hence user can set system in electricity bill saving.													
DOD definition (Depth of Discharge)	Mains will be connect when battery voltage reach at defined value of the battery voltage.													
DOD (Depth of Discharge)	20% - if battery voltage is			12.5V±0.2V			25.0V±0.2V			50.0V±0.2V				
	30% - if battery voltage is			12.0V±0.2V			24.0V±0.2V			48.0V±0.2V				
	40% - if battery voltage is			11.5V±0.2V			23.0V±0.2V			46.0V±0.2V				
	50% - if battery voltage is			11.0V±0.2V			22.0V±0.2V			44.0V±0.2V				
Mode Selection				Solar>>Grid>>Battery Solar>>Battery>>Grid			Solar>>Battery>>Grid Grid>>Solar>>Battery Solar>>Grid>>Battery			Solar>>Grid>>Battery Solar>>Battery>>Grid				
BATTERY CHARGING CURRENT BY SOLAR														
30% battery will charged with							20Amp± 3Amp.							
40% battery will charged with							30Amp± 3Amp.							
50% battery will charged with							40Amp± 3Amp.							
100% battery will charged with							70Amp± 3Amp.							
LCD DISPLAY														
LCD Display	Messages (Display Values can be different 2% from the RMS actual values)													
	Mains Input Voltage / Battery Voltage / Mains Fuse Blown / Solar Power Available or Not. / Reverse PV / High PV Voltage / Mains Current / Solar Current / Battery Current / PCU ON, OFF / Battery Voltage / Battery Current / Solar Power Available or Not / Load % . / Short Ckt. / Over Load / Wiring Fault / Battery Low. / Battery High / Out Put Voltage / High Temp. / Output Frequency.													
	Mains Disconnected, Connected Selection													
	If solar is available battery reaches float voltage after <5 min. mains will be disconnected, when mains is connected battery voltage reaches permitted DOD voltage and solar power not available. NOTE: This Condition is not applicable for Grid >> Solar >> Battery Condition.													