

PRODUCT SPECIFICATIONS

MODEL NAME	1050VA	1250VA	1500VA	2250VA	2675VA	3250VA	4000VA	5500VA	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 WUPS mode					110VAC ± 10VAC										
Mains AC high cut WUPS mode					295VAC ± 10VAC										
Mains AC high cut recovery WUPS 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	120V					
Battery Quantity 12V 100Ah to 220Ah	1			2			4		8	10					
Float charging voltage	13.7V±0.2V			27.4V±0.2V			54.8V±0.4V		109.6V±0.4V	137V±0.4V					
Bulk absorption Voltage	14.8V±0.2V			29.6V±0.2V			59.2V±0.4V		118V±0.4V	148V±0.4V					
Boost charging voltage for LA Battery	14.0V±0.2V			28.0V±0.2V			56.0V±0.4V		111.5V±0.5V	139.5V±0.5V					
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V			29.0V±0.2V			57.8V±0.4V		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 ± 2A			14A ± 2A		15A ± 2A		14A ± 2A	15A ± 3A	14A ± 2A					
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	50A ± 2A		55A ± 3A		90A ± 3A		60 ± 2A		70 ± 2A		90A ± 3A	60A ± 2A	70 ± 2A	66 ± 2A	66A ± 2A
Low Battery Warning	10.8±0.2V			21.6V±0.2V			43.2V±0.4V		86.4V±0.5V	108±0.5V					
Low Battery Cut	10.4V±0.2V			20.8V±0.2V			41.6V±0.4V		83.2V±0.5V	104V±0.5V					
Change over time UPS mode	< 10msec								< 4msec						
Change over time WUPS mode	< 25msec														
PROTECTIONS															
Overload in backup mode	Yes provided, system will indicate on display at 101% load														
Short Circuit in Backup Mode	System will shutdown after 3 - retries in case of output short circuit														
Short Circuit in Mains Mode	Mains Fuse will blown					Mains MCB will trip									
Back feed	System will shutdown in case of back feed and there is no retry														
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down														
Reverse Battery	DC fuse will blown					Battery MCB will trip									
Phase to Phase protection in mains mode	Yes provided by electronic														
SOLAR CHARGE CONTROLLER															
Solar Charge Controller type	PWM type														
Max Panel wattage can be connected	800W		1200W		1800W		2400W		3000W	4500W	6500W	8000W			
Max PV current	40A		70A		50A		70A		50A	70A	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.								NA						
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		100V±0.2V	125V±0.2V					
	30% - if battery voltage is		12.0V±0.2V		24.0V±0.2V		48.0V±0.2V		96V±0.2V	120V±0.2V					
	40% - if battery voltage is		11.5V±0.2V		23.0V±0.2V		46.0V±0.2V		92V±0.2V	115V±0.2V					
	50% - if battery voltage is		11.0V±0.2V		22.0V±0.2V		44.0V±0.2V		88V±0.2V	110V±0.2V					
Mode Selection				Solar>>Grid>>Battery Solar>>Battery>>Grid			Solar>>Battery>>Grid Grid>>Solar>>Battery Solar>>Grid>>Battery								
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.															