TECHNICAL SPECIFICATION

MODEL - SUPERB+ 3275/24V SOLAR PCU

PARAMETERS	SPECIFIED VALUE
MAINS MODE	
Mains AC low cut Narrow Window(UPS)	175VAC ± 10VAC
Mains AC low cut recovery Narrow Window(UPS)	185VAC ± 10VAC
Mains AC high cut Narrow Window(UPS)	265VAC ± 10VAC
Mains AC high cut recovery Narrow Window(UPS)	255VAC ± 10VAC
Mains AC low cut Wide Window(W.UPS)	90VAC ± 10VAC
Mains AC low cut recovery Wide Window(W.UPS)	110VAC ± 10VAC
Mains AC high cut Wide Window(W.UPS)	295VAC ± 10VAC
Mains AC high cut recovery Wide Window(W.UPS)	285VAC ± 10VAC
Grid Charging Voltage Range	90V to 295VAC (5A to 14A)
Grid Charging Current (Tubular / LA)	15A ± 2A
Battery Boost LA	28 V ± 0.2V
Battery Boost Voltage.SMF/TUB	29.0V ± 0.2V
Battery Float Voltage	27.4V± 0.2V
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge
BACK UP MODE	
Battery Low Voltage warning	21.4V ± 0.2V
Battery Low Voltage cut off	21V ± 0.2V
No Load Current	1.5A ± 0.2A @ 24VDC
Wave Form	Pure Sine Wave
Frequency	50 ± 0.1 Hz
Discharging Current	80 ±2Amp.
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
Reverse Battery	DC FUSE BURN
Scc Reverse Battery	DC Fuse Burn
Short Circuit in Mains Mode	MAINS MCB TRIP
Battery Over Charge	Battery Over Charge Protection in Charging mode
High PV Voltage	>105V
Reverse PV Connected	Yes, Provided
Over Charge Protection	Yes, Provided
Over Current Protection PV	Yes, Provided
MPPT SPECIFICATION	
Max. I/P PV Voltage	105 ± 2V
Min. I/P PVoltage	35V
Solar Array	Multi array
MPPTCharging Current	70A ± 3A
Max. Solar Panel Install	2500W
MPPT to PV power connection time.	< 15sec.
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/ Solar charging current / PCU ON, OFF / Load % / Short Circuit 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 aplicable for Grid >> Solar >> Battery Condition.**	
DOD SWITCH SELECTION	
DOD 20%, 25V	If battery voltage reaches 25V ± 0.2V Mains Will be connected
DOD 30%, 24V	If battery voltage reaches 24V ± 0.2V Mains Will be connected
DOD 40%, 23V	If battery voltage reaches 23V ± 0.2V Mains Will be connected
DOD 50%, 22V	If battery voltage reaches 22V ± 0.2V Mains Will be connected
MAINS CHARGING ENABLE AND DISABLE	
Yes, Provided user can set mains charging **ENABLE/DISABLE** from front switch	
UNIT SAVING IN DISPLAY	
LCD Display will show the total saving unit	
BATTERY CHARGING CURRENT BY SOLAR	
30% Battery will charged with	20Amp. ± 3Amp. by solar
40% Battery will charged with	30Amp. ± 3Amp. by solar
50% Battery will charged with	40 Amp. ± 3Amp. by solar
100% Battery will charged with	70 Amp. ± 3Amp. by solar
MODE PRIORITY	
Solar>>Battery>>Grid	In this condition first priority is Solar then Battery & Grid
Grid>>Solar>>Battery	In this condition first priority is Grid then Solar & Battery (Mains will not disconnect in this condition)
Solar>>Grid>>Battery	In this condition first priority is Solar then Grid & Battery