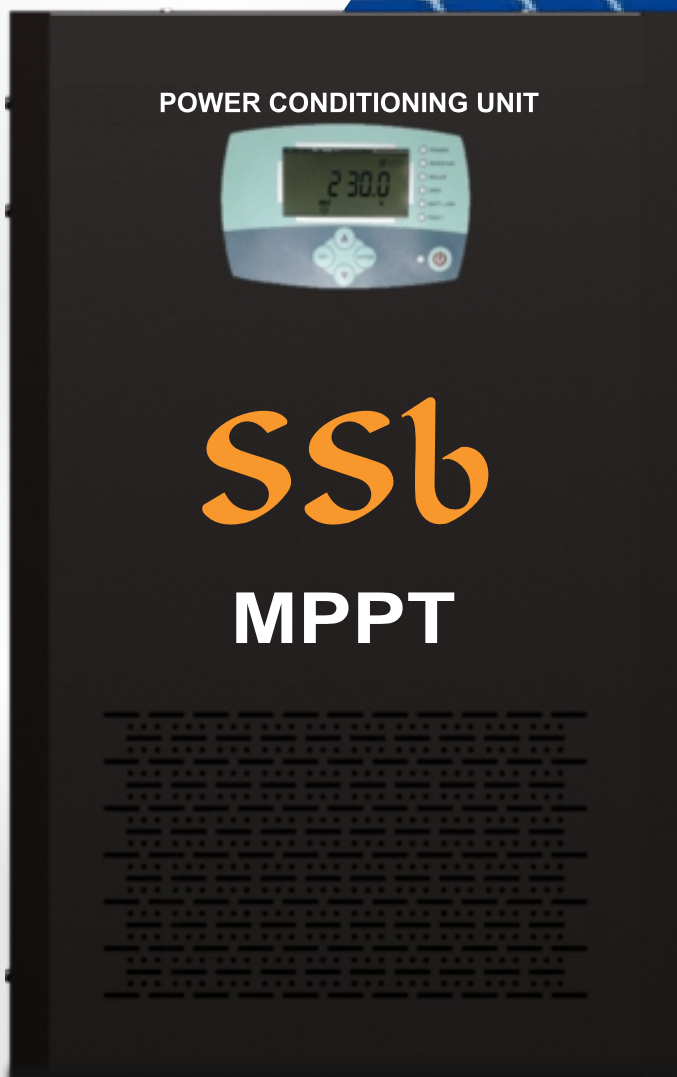


SSb

HYBRID SOLAR PCU

5KVA/48V & 10KVA/120V



Advanced MPPT Algorithm Based



Least
Harmonic Distortion



Compatible
with Li-ion



Live Clock
Based User
Settable Functioning



100%
Utilization
of Solar Power

Technical Specifications

SSB MPPT PCU SERIES

SOLAR INVERTER

Inverter Rating*1	5KVA	10KVA	15KVA	20KVA
Nominal Battery Voltage*2	48V	120V	240V	240V
No of Phases	1P	1P/3P	1P/3P	1P/3P
Nominal Output Voltage/ Frequency*3	230/400 V (+ 10% & -20% in Grid synchronised model)/50 Hz ± 2%			
Voltage Regulation (in Standalone Mode)	± 2%			
Freq. Regulation (in Standalone Mode)	± 0.5 Hz			
THD	< than 5%			
Load Power Factor	Unity			
Efficiency (Peak)	88%		90%	
Over Loads: 60 sec/ 30 sec/ 5 sec	110% 125% 150%			
Max Allowed Phase Imbalance (for 3Ph)	30%			
Auto Bypass Feature	Provided			
Parallel Operation with Grid/ DG	Provided			
Grid Synchronisation & Anti-Islanding	Provided			
Grid Charging	Enable / Disable (User Settable)			
Power Export to Grid Facility	Enable / Disable (User Settable)			
SOLAR CHARGE CONTROLLER				
Charge Controller Type	MPPT			
Charger Topology	Buck Type			
PV Nominal Capacity (Total in KW)	Same as Inverter Capacity			
No of MPPT Channels	1			
Max. Open Circuit PV Volts (Voc)	190V	360V	360V/720V	360V/720V
MPPT Upper Range	156V	312V	312V/624V	312V/624V
MPPT Lower Range	66V	165V	165V/330V	165V/330V
Battery type Supported*4	VRLA LMLA Ni-Cd Li-Ion Chemistries Flow Batteries			
Peak Charging Efficiency	≥94%			
GRID CHARGER				
Grid Voltage Range (Voltage Sync. Range)	+10 % & -20 % VAC			
Grid Frequency range (Freq. Sync Range)	+5% & -5% Hz			
Max Grid Import Power	as per inverter rating			
Peak Charging Efficiency	up to 85 %			
PROTECTION				
PV Side	Reverse Polarity , Surge Protection (Class D)			
Battery Side	Reverse Polarity , Over/ Under Voltage , Current Limit , Temperature Compensation			
Grid Side	Over/ Under Voltage , Over/ Under Frequency , Surge Protection (Class D)			
Load Side	Overloads , Short circuit			
System Protection	Over Temperature trip , Breakers at all Inputs , Emergency stop			
USER INTERFACE				
Display Interface	Graphical LCD with back light (128x64)			
Setting Input	Membrane Keypad for Settings Input			
Battery Parameters	Voltage, Current, Cumulative Import Energy			
PV Parameters	Voltage, MPPT Charger O/P Amps, Power, Energy, Cumulative Generation			
Grid Parameters	Phase Voltage, Frequency, Power, Power Factor, Reactive Power, Average Power, Peak Power, Cumulative Exported Energy			
Load Parameters	Phase Voltage, Phase Current, Frequency, Power, Power Factor, Average Load, Peak Load			
System level Parameters	Mode of Operation, Active Faults, Heat Sink / IGBT temperature, System Mimic			
LED Indications	Mains On, Alarm, Buzzer Mute			
MONITORING				
RS 485	RS-485 based monitoring showing all parameters through MODBUS			
GPRS(Optional)	GPRS based remote monitoring systems			
SD - Card	DATA LOGGING in Micro SD Card: All parameters can be logged in Micro SD memory card as per date / time. Logged parameter can be viewed / Saved through Laptop / PC.			
MISCELLANEOUS				
Degree Of Protection	IP-21			
Cooling Method	Temp Controlled Force Cooling			
Operating Temperature	0-55 degrees (without Derating)			
Humidity	Max. 95% Non-Condensing			
Altitude	1000m above sea level			
Housing	Floor Standing / Tower Type			
APPROVALS*4	IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-(1,2,14,30), EN 50530, IEC 60529			



SSB FZE

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