



LEADING
SINCE 1969

LEADER

ENERGY TO PERFORM

*Advanced mppt algorithm
ensures highest generation*

**SOLAR
PCU**



MPPT ALGORITHM
90% + EFFICIENCY.



LOW DISTORTION OUTPUT
BEST FOR CRITICAL LOADS



SYNCHRONIZATION
WITH GENSETS.



MAX. SOLAR
UTILIZATION

INDIA'S LARGEST INTREGATED BATTERY MANUFACTURING FACILITIES

TECH. DATA SHEET OF SOLAR PCU

Parameters	Specifications		
Models	1150 1175 1375-12V	2450/24V	3800/48V
BATTERY MODE			
No Load Current @ Switch Off	≤ 180mA	≤ 200mA	≤ 180mA
battery Voltage @ No Load	12V	24V	48V
Output Frequency	50Hz	50Hz	50 Hz
Output Voltage @ No Load	225± 7V	225± 7V	225± 7V
Battery Current @ Full Load	61 53 65	6 ± 1 A	70 ± 1 A
UPS MODE			
Low Cut	180±5V	180±5V	180±5V
High Cut	270±5V	270±5V	270±5V
Change Over Time	≤ 8 Msec	≤ 8 Msec	≤ 8 Msec
SOLAR CHARGE CONTROLLER WITH LIVE CLOCK			
Charge Controller Rating	50A	50A	50A
Max. Pv (Voc)	25V	50V	[108 X Specified Vdc] V
Solar Battery Charging Current(Settable)	30A(Default)	30A(Default)	30A(Default)

MPPT RANGE

Inverter Rating	5KVA	10KVA	15KVA	20KVA
Nominal Battery Voltange	48V		240V	240V
No of Phases	1P	1P/3P	1P/3P	1P/3P
Nominal Output Voltage/ Frequency	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)	NA	30%		
Auto Bypass Feature	Provided			
Parallel Operation with Grid/ DG	Provided			
Grid Synchronisation & Anto-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	VRLA LMLA Ni - Cd Li - Ion Chemistries Flow Batteries			
Peak Charging Efficiency	≥94%			
GRID CHARGER				
Grid Voltange Range (Voltage Sync. Rance)	+10% & -20% VAC			
Grid Frequency range (Freq. Sync Range)	+5% & -5% Hz			
Max Grid Import Power	as per inverter rating			
Peak Chargin	up to 85 %			

CORPORATE OFFICE

SS -14 2nd Floor, Aditya Mega Mall
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110032

INTERNATIONAL BUSINESS OFFICE

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MANUFACTURING UNIT

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