

Solar Off-Grid PCU - Performance Range

Models	WEM3500	WEM5000	WEM7500	WEM10000
PCU Capacity - W	3500	5000	7500	10000
Charge Controller Type	MPPT	MPPT	MPPT	MPPT
Max PV input Power - Wp	3750	5000	7500	10000
Max Solar Input Current - Amp	25.5	34	34	34
Max Current from Battery - Amp	63	84	50	67
Charge Controller Type	One input dual channel interleaved MPPT	Two input dual channel interleaved MPPT		
Max Solar Input Voltage(Vmp) - V	150		230	280
Max Solar DC Input Voltage (Voc) - V	185		280	350
Solar Battery Charging Current	40 Amps.(default) Settable from 5 to 50 Amps for Battery			
Charging Efficiency	98%			
BATTERY MODE				
No Load Current (Switch OFF) - mA	≤ 180			
Nominal Battery Voltage - V	48	120		
Output Voltage at No LOAD - V	230 ± 1%			
Output Frequency @ No LOAD - Hz	50 ± 1%			
Output Frequency @ Full LOAD - Hz	50 ± 1%			
Short Circuit	> 300%			
Voltage THDi (linear load)	≤ 3%			
UPS MODE				
Low Cut With Phase Match - V	180 ± 5			
High Cut With Phase Match - V	260 ± 5			
Change Over Time From Mains To UPS	≤ 10msec			
Change Over Time From UPS To Mains	≤ 10msec			
NORMAL MODE				
Low Cut With Phase Match - V	100 ± 5			
High Cut With Phase Match - V	280 ± 5			
Change Over Time From Mains To UPS	≤ 40msec			
Change Over Time From UPS To Mains	≤ 10msec			
CHARGING MODE				
Low Charging Current @ 220V AC (NC) - Amp	12.0 ± 1.0			
High Charging Current @ 220V AC (HC) - Amp	16.0 ± 1.0			
Boost Charging Voltage (HC/NC) - V	14.4 ± 0.2 (per Battery)			
Float Charging Voltage (HC/NC) - V	13.7 ± 0.2 (per Battery)			
PROTECTIONS				
Over Load Protection with Alarm	Over Load Shut Down After 6 Auto Retries			
Over Load Shut Down Reset	Through ON/OFF Switch & Mains			
Battery Low Alarm	10.8± 0.2V (per Battery)			
Battery Low Protection	Battery Low Shut Down After 4 Auto Retries			
Battery Low Shut Down Reset	Through ON/OFF Switch & Mains			
Over Temperature Protection With Alarm	95 ± 5 °C			
Short Circuit @ Mains Mode	AC Fuse			
Short Circuit Protection (Battery Mode)	Yes			
Short Circuit Retry	One			
Short Circuit Reset	Through ON/OFF Switch & Mains			
P.V. reverse protection with alarm	Yes			
Remote Monitoring	Yes (Optional)			

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Exclusive Features:-

Power Saving feature to bypass charging from grid to save on electricity bills

Real time divides the day in 4 time slots for optimum solar power utilization

PWM/MPPT built-in Solar Charge controllers

Solar Power is an optional feature, so it can be used as a conventional Inverter

Smart Overload, Short circuit sensing and protection circuits with auto retry

Provision for setting critical parameters

Priority Selection for Battery Charging

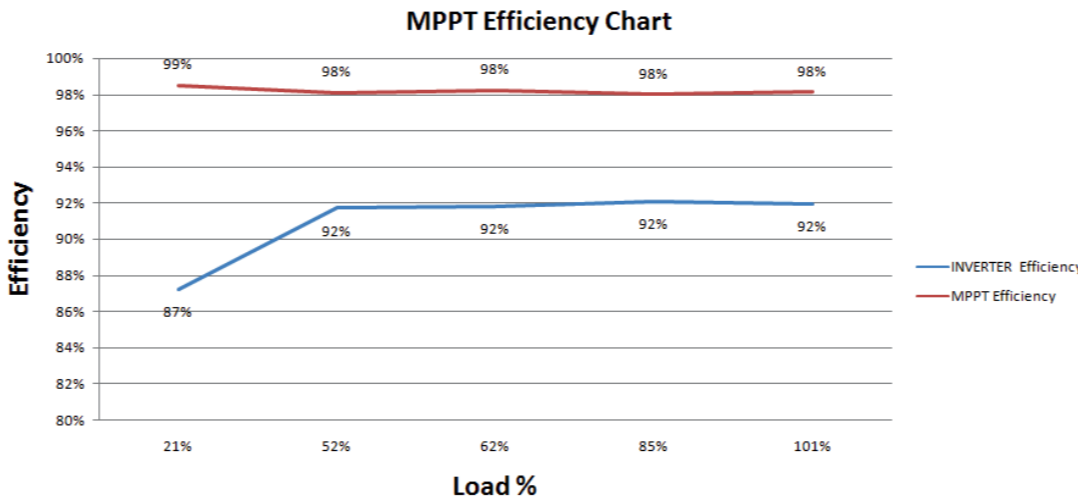
Independent of grid, Grid is not mandatory

Instant Changeover to support computers, servers & sensitive loads

LCD Display to read and edit the parameters

Accessible Parameters Via Operating Display

1. AC mains voltage
2. O/P Load in %
3. Battery input voltage
4. Battery Charging/Discharging current (Bar Graph)
5. Solar KWH used
6. Solar Status
7. Faults Status
• Overload • Short Circuit
• Fuse Trip • Over Temp.
• Empty 'Battery' Blinking)



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SOLAR SINGLE PHASE OFF-GRID PCU



Smart Solar Selection Logic based on built in Real Time



Optimum solar power usage with high current solar charge controller



Simultaneously Charge batteries by Solar and Grid



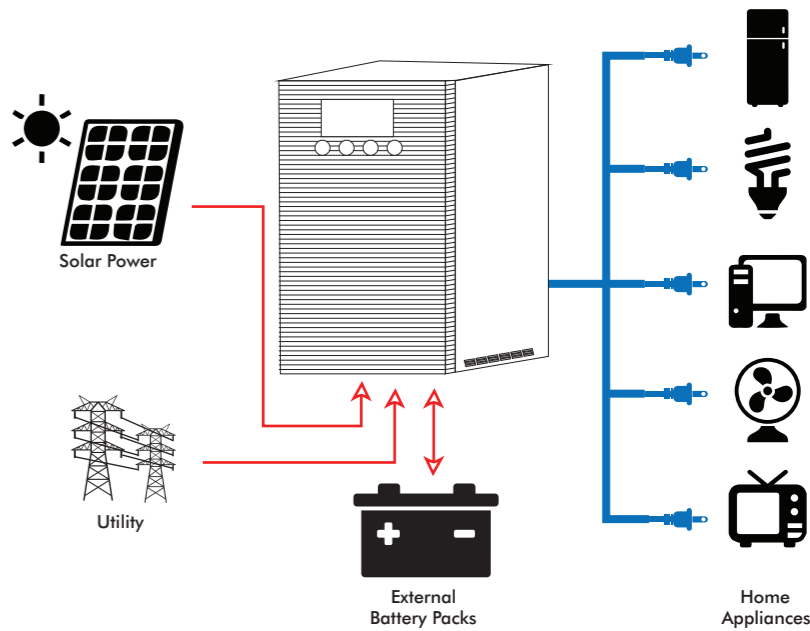
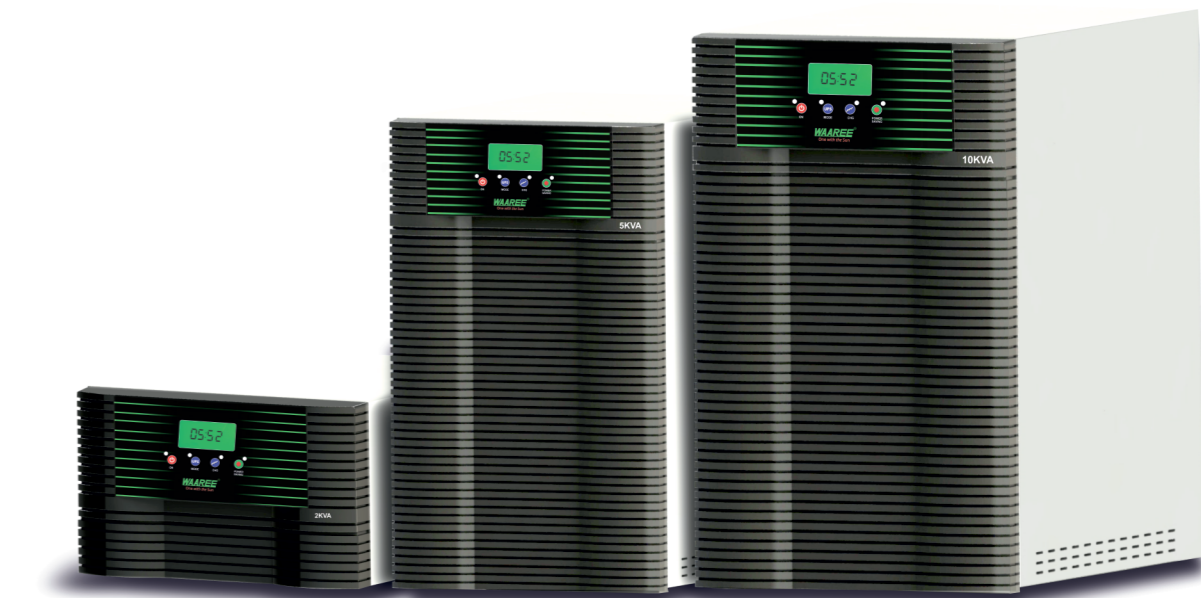
Provision for maintaining the battery gravity once in month



Ability to provide 100% rated power directly from solar panel



Intelligently gives the priority to solar power & takes the balance from Mains



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Solar PCU - Commercial Range

Models	WEP3000-LCD	WEP3750-LCD	WEP5500-LCD	WEP6000-LCD	WEP8000-LCD	WEP10000-LCD
Solar Charger						
PCU Capacity - VA	3000	3750	5500	6000	8000	10000
Max. Charging Current - Amp	50	50	70	50	50	70
Charge Controller Type	PWM based					
Max PV input Power - Wp	3600	3600	5040	7200	9000	12600
Max Solar DC Input Voltage (Voc) - V	87			173	216	
BATTERY						
No Load Current @ Switch OFF - mA	≤ 180					
Battery Voltage @ No LOAD - V	48			96	120	
Output Voltage @ No LOAD - V	225 ± 7					
Output Frequency @ No LOAD - Hz	50 ± 1					
Short Circuit	> 300%					
Harmonic distortion in O/P waveform(linear load)	≤ 3%					
UPS MODE						
Low Cut off With Phase Match - V	180 ± 5					
High Cut off With Phase Match - V	260 ± 5					
Change Over Time From Mains To UPS	≤ 10msec					
Change Over Time From UPS To Mains	≤ 10msec					
NORMAL MODE						
Low Cut off With Phase Match - V	100 ± 5					
High Cut off With Phase Match - V	280 ± 5					
Change Over Time From Mains To UPS	≤ 40msec					
Change Over Time From UPS To Mains	≤ 10msec					
AC CHARGING MODE						
Low Charging Current @ 220V AC (NC) - A	12.0 ± 1.0					
High Charging Current @ 220V AC (HC) - A	16.0 ± 1.0					
Boost Charging Voltage (HC/NC) - V	14.4 ± 0.2 (per Battery)					
PROTECTIONS						
Over Load Protection with Alarm	Over Load Shut Down After 6 Auto Retries					
Over Load Shut Down Reset	Through ON/OFF Switch & Mains					
Battery Low Alarm (Per Battery)	10.8± 0.2V					
Heat Dissipation	Fan Operated					
Battery Low Protection	Battery Low Shut Down After 4 Auto Retries;					
Battery Low Shut Down Reset	Through ON/OFF Switch & Mains					
Over Temperature Protection With Alarm	95 ± 5 °C					
Short Circuit @ Mains Mode	AC Fuse					
Short Circuit Protection (Battery Mode)	Yes					
Short Circuit Retry	One					
Short Circuit Reset	Through ON/OFF Switch & Mains					
P.V. REVERSE PROTECTION WITH ALARM	Yes					
Remote Monitoring	Yes (Optional)					

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Solar UPS - Home Range

Models	WEP325-LED	WEP525-LED	WEP725-LED	WEP975-LCD
PCU Capacity - VA	325	525	725	975
Max. Charging Current - Amp	20	30	40	50
Charge Controller Type	PWM based			
Max PV input Power - Wp	360	540	720	900
Max Solar DC Input Voltage (Voc) - V	22			
BATTERY				
No Load Current @ Switch OFF - mA	≤ 180			
Battery Voltage @ No LOAD - V	12			
Output Voltage @ No LOAD - V	225 ± 7			
Output Frequency Hz	50 ± 1			
Short Circuit	> 300%			
Harmonic distortion in O/P waveform(linear load)	≤ 3%			
UPS MODE				
Low Cut off With Phase Match - V	180 ± 5			
High Cut off With Phase Match - V	260 ± 5			
Change Over Time From Mains To UPS	≤ 10msec			
Change Over Time From UPS To Mains	≤ 8msec			
NORMAL MODE				
Low Cut off With Phase Match - V	100 ± 5			
High Cut off With Phase Match - V	280 ± 5			
Change Over Time From Mains To UPS	≤ 20msec			
Change Over Time From UPS To Mains	≤ 10msec			
AC CHARGING MODE				
Low Charging Current @ 220V AC (NC) - A	12.0 ± 1.0			
High Charging Current @ 220V AC (HC) - A	16.0 ± 1.0			
Boost Charging Voltage (HC/NC) - V	14.4 ± 0.2 (per Battery)			
PROTECTIONS				
Over Load Protection with Alarm	Over Load Shut Down After 6 Auto Retries			
Over Load Shut Down Reset	Through ON/OFF Switch & Mains			
Battery Low Alarm (Per Battery)	10.8± 0.2V			
Heat Dissipation	Fan Operated			
Battery Low Protection	Battery Low Shut Down After 4 Auto Retries			
Battery Low Shut Down Reset	Through ON/OFF Switch & Mains			
Over Temperature Protection With Alarm	95 ± 5 °C			
Short Circuit @ Mains Mode	AC Fuse			
Short Circuit Protection (Battery Mode)	Yes			
Short Circuit Retry	One			
Short Circuit Reset	Through ON/OFF Switch & Mains			
P.V. Reverse Protection With Alarm	Yes			
Remote Monitoring	No			

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Solar UPS - Home Range

Models	WEP1050-LED	WEP1150-LCD	WEP1650-LCD	WEP2250-LCD
PCU Capacity - VA	1050	1150	1650	2250
Max. Charging Current - Amp	50			
Charge Controller Type	PWM based			
Max PV input Power - Wp	900	1000	1800	2000
Max Solar DC Input Voltage (Voc) - V	22		44	
BATTERY				
No Load Current @ Switch OFF - mA	≤ 180			
Battery Voltage @ No LOAD - V	12		24	
Output Voltage @ No LOAD - V	225 ± 7			
Output Frequency Hz	50 ± 1			
Short Circuit	> 300%			
Harmonic distortion in O/P waveform(linear load)	≤ 3%			
UPS MODE				
Low Cut off With Phase Match - V	180 ± 5			
High Cut off With Phase Match - V	260 ± 5			
Change Over Time From Mains To UPS	≤ 10msec			
Change Over Time From UPS To Mains	≤ 8msec		≤ 10msec	
NORMAL MODE				
Low Cut off With Phase Match - V	100 ± 5			
High Cut off With Phase Match - V	280 ± 5			
Change Over Time From Mains To UPS	≤ 20msec			
Change Over Time From UPS To Mains	≤ 10msec			
AC CHARGING MODE				
Low Charging Current @ 220V AC (NC) - A	12.0 ± 1.0			
High Charging Current @ 220V AC (HC) - A	16.0 ± 1.0			
Boost Charging Voltage (HC/NC) - V	14.4 ± 0.2 (per Battery)			
PROTECTIONS				
Over Load Protection with Alarm	Over Load Shut Down After 6 Auto Retries			
Over Load Shut Down Reset	Through ON/OFF Switch & Mains			
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