

Energy Storage Unit- Offgrid

Series A&S, 1Phase, 230V, 50Hz



Product Overview

The CECPL Solar Power Storage Unit is a plug-n-play integrated power Storage Unit. This is the new Off Grid UPS or efficient Home Inverter.

Delivering proven value at a competitive price, CECPL PSU provides the best value for off-grid solar, self-consumption and long-term backup for homes, small business and small remote communities.

The PSU comprises of

- ★ Solar compatible charger that energizes a Li-Ion battery bank,
- ★ High Efficiency Inverter that powers AC loads from the battery bank and
- ★ Li-Ion Battery with double the life of a Lead Acid Battery.

An advanced Digital Signal Processor (DSP) in the PCU controls the power flow by maximizing solar power harvesting, provides uninterrupted power and reduces the utility charges and gas bill on diesel generators.

Product Highlights	Key Features
<ul style="list-style-type: none">● Easy to Install, Control and Monitor● Fast Battery Charging (Less than 3 Hrs)● Battery may be Charged through Solar PV or Grid or DG● Programmable Usage● Galvanic isolated transformer improves safety● Supports Start of heavy loads● Pre-Wired fully Enclosed Storage Solution● Designed for flexibility● International Products deliver High Efficiency● Highly Expandable Storage● High reliability design proven through extreme testing under the harshest conditions● All-in-one design saves significant labour time by simplifying the installation and interface with pre-wired storage and PV Cables with MC4 Connectors or terminal● Leading performance in charging efficiency	<ul style="list-style-type: none">● Reduce demand charges by using CECPL PSU Peak-Load & Time of Day shaving feature to offset high cost peak demand energy● Provide a total grid-independence for off-grid installations with PV power.● Reduce the cost of fossil fuel usage generator, maintenance and repair.● Enjoy the freedom to power the toughest loads with the high surge rating of the product.● Higher Return on Investment● Simple design make it easy to install by a single installer● Increase self-consumption by prioritizing use of PV energy over grid energy, store surplus PV in batteries for later use during peak time-of-use periods.

Most advanced energy optimization configurable features with the ability to cover a wide variety of applications.

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Product Specifications

Model	CEA-1.4-1.3	CEA-2.5-2.69	CEA-3.0-5.3	CES-3.0-1.3	CES-3.4-1.3	CES-4.0-5.3
KVA @25 Deg.C	1.40	2.60	3.30	3.00	3.40	3.80
Battery kWhr at DOD 85%	1.34	2.69	5.38	1.34	1.34	5.38
MPPT Amp	40	40	40	60	60	60
Charging Time in Hr	1.4	1.4	2.8	0.9	0.9	1.9
Nominal Output/Battery Voltage	24	48	48	24	24	48
Peak Current AC	10 A	13 A	20 A	24.3 A	42 A	42 A
Number of cycles of Battery	4500	4500	4500	4500	4500	4500
Charging Discharging Current (Amp)	28	28	56	28	28	56
PV Connected KWp	1	2	2.5	4.6	4.6	4.6
MPPT Range (VDC)	26 to 40	48 to 72	48 to 72	0 to 80	0 to 80	0 to 80
Output Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Changeover Time (milli Sec)	<12	<12	<12	<20	<20	<20
Peak Efficiency Inverter (%)	88	90	90	90	90	92
Output Power KW (30 Min) @ 25 Deg. C	1.40	2.60	3.30	3.3	4	4.4
Output Power KW (5 Sec) @ 25 Deg. C	1.40	2.60	3.30	5	7	7
Max. Charge Current (without PV)	40 A	40 A	40 A	65 A	90 A	45A
Self-Consumption in W	<30	<50	<50	<15W	<15W	<15W
Phase / Connection	1Phase / 2Wire					
Protections	Short Circuit, Reverse Polarity, Overload, Over Temperature Protection, Battery Protection					
System Ratings	IP 42					
Remote Monitoring	Optional			Yes		
Warranty (Years)	2 Years PCU & 5 years Battery			5 Years PCU & Battery		
Dimensions (H x W x D) in mm	1000x750x600	1000x750x600	1000x1200x600	1000x750x600	1000x750x600	1000x1200x600
Product Weight in Kg	178	183	275	180	181	241