

# Energy Storage Unit-Hybrid

Series R & X, 1Phase/3 Phase, 230V/440V, 50Hz



## Product Overview

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

Delivering proven value at a competitive price, *Robust, Industrial Grade, High Energy, Heavy Duty*. CECPL PSU provides the best value for hybrid solar, self-consumption and long-term backup for homes, small business and small remote communities.

The PSU comprises of

- ★ *Solar compatible* charger that energises 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.

Featuring higher power ratings, R & X Series PSU also has better battery management, including support for Lithium-Ion technology. Its superior BOS integration further simplifies installation. It can be used for both DC and AC coupled systems and is suitable for large hybrid applications. The PCU controls the power flow by maximizing solar power harvesting, provides uninterrupted power and reduces the utility charges and Fuel bill on diesel generators

Product Highlights	Key Features
<ul style="list-style-type: none"><li>● <i>Easy to Install, Control and Monitor</i></li><li>● <i>Fast Battery Charging ( Less than Four Hour )</i></li><li>● <i>Battery may be Charged through Solar PV or Grid or DG</i></li><li>● <i>Programmable Usage</i></li><li>● <i>Galvanic isolated transformer improves safety</i></li><li>● <i>Supports Start of heavy loads</i></li><li>● <i>Pre-Wired fully Enclosed Storage Solution</i></li><li>● <i>Designed for flexibility Expandable Up To 72KVA in single phase &amp; 3 Phase</i></li><li>● <i>International Products deliver High Efficiency</i></li><li>● <i>Highly Expandable Storage</i></li><li>● <i>High reliability design proven through extreme testing under the harshest conditions</i></li><li>● <i>All-in-one design saves significant labor time by simplifying the installation and interface with</i></li></ul>	<ul style="list-style-type: none"><li>● <i>Reduce demand charges by using CECPL PSU Peak-Load &amp; Time of Day shaving feature to offset high cost peak demand</i></li><li>● <i>energy Provide a total grid-independence for off-grid installations with PV power.</i></li><li>● <i>Reduce the cost of fossil fuel usage generator, maintenance and repair.</i></li><li>● <i>Enjoy the freedom to power the toughest loads with the high surge rating of the product.</i></li><li>● <i>Higher Return on Investment</i></li><li>● <i>Simple design make it easy to install by a single installer</i></li><li>● <i>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.</i></li></ul>

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<p><i>pre-wired storage and PV Cables with MC4 Connectors or terminal</i></p> <ul style="list-style-type: none"> <li>• <i>Leading performance in charging efficiency</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Supports DC coupled and AC coupled off-grid and grid-tie architectures</i></li> </ul>
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Most advanced energy optimization configurable features with the ability to cover a wide variety of applications.

## **Product Specifications: R & X Series**

Type	Single Phase, 50 Hz					
Model Number	CE1-03-5.3	CE1-06-10.8	CE1-06-5.3	CE1-09-16.13	CE1-12-13.6	CE1-18-16.3
KVA Rating @ 40 Deg.C	3	6	6	9	12	18
KVA Rating @ 25 Deg.C	3.5	7	6.80	10.5	13.60	20.40
Battery kWhr (DOD-85%)	5.38	10.75	5.38	16.13	10.75	16.13
MPPT Amp	60	60	60	120	60	120
Charging Time (Hrs)	1.9	3.7	1.9	2.8	3.7	2.8
Inverter Voltage	48 V					
Charging Discharging Current (Amp)	56	112	56	168	112	168
Max Inv Current DC (Amps)	55	100	180	155	360	540
Overload 30 min at 25°C in KW	4.0	7.9	8.5	11.9	17	25.5
Overload 60 sec at 25°C in KW	4.0	7.9	12	11.9	24	36
Self-Consumption in W	<50	<50	<20	<100	<35	<70
Phase / Connection	Single/2 Wire					
Protections	Short Circuit, Reverse Polarity, Overload, Over Temperature Protection, Battery Protection					
System Ratings	IP 42					
Remote Monitoring Available	Available					
Warranty*	5 Years					

# Energy Storage Unit-Hybrid

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Type	Three Phase, 4 Wire 50 Hz									
Model Number	CE3-09-16.13	CE3-17-16.13	CE3-18-16.3	CE3-26-21.5	CE3-35-21.5	CE3-43-27	CE3-36-21.5	CE3-52-32.2	CE3-54-27	CEP3-72-32.2
KVA Rating @ 40 Deg.C	9	17	18	26	35	43	36	52	54	72
KVA Rating @ 25 Deg.C	11	21	20	32	42	53	41	63	61	82
Battery kWhrd (DOD-85%)	16	16	16	22	22	27	22	32	27	32
MPPT Amp	120	120	120	240	480	600	240	720	480	600
Charging Time (Hrs)	3	3	3	2	1	1	2	1	1	1
Inverter Voltage	48V									
Charging Discharging Current (Amp)	168	168	168	224	224	280	224	336	280	336
Max Inv Current DC (Amps)	165	300	540	465	600	765	1,080	900	1,620	3,240
Overload 30 min at 25°C in KW	12	24	26	36	47	59	51	71	77	102
Overload 60 sec at 25°C in KW	12	24	36	36	47	59	72	71	108	144
Self-Consumption in W	<100	<150	<70	<120	<150	<180	<120	<200	<150	<180
Phase / Connection	Three/4 Wire									
Protections	Short Circuit, Reverse Polarity, Overload, Over Temperature Protection, Battery Protection									
System Ratings	IP 42									
Remote Monitoring Available	Available									
Warranty (Years)	5 Years									