

1.2 MWh/500kW



Efficient.
Compact.
Reliable.



CEI-016 – ITALIA
EN-50549

1M2 1.2 MWh/500 kW ESS ALL-IN-ONE CONTAINER

Unlock The Future Of Sustainability ,Designed To Efficiently Harness, Store
And Distribute Renewable Energy For A Cleaner Tomorrow

1M2-500

PLUG & PLAY HYBRID BESS

Specifications

1205 kWh / 500 kW (optional PCS/MPPT)

Battery System	Cell Type	LFP 314Ah
	Cell Configuration	5P-1P240S
	Rated Energy	1205 kWh
	Rated Voltage	768 VDC
	Voltage Range	672 ~ 852 VDC
	Rated Current	785 A
	Max. Current	865 A
PV Input (Optional)	Max. Input Power	720 kW
	Start-Up / Cut-Off Voltage	250 / 150 VDC
	No. of MPPT	12 (60 kW Each)
	Max. Input Current	350 A x 12
On-Grid PCS	Rated Power	500 kW
	Rated Voltage	3L/N/PE; 400 (320 ~ 460) VAC
	Max. Current	722 A
	Frequency	50 (45 ~ 55) / 60 (55 ~ 65) Hz
	Power Factor	0.8 Leading - 0.8 Lagging
	Total Harmonic Distortion	< 3% @ Rated Power
Off-Grid PCS	Rated PCS Power	500 kW
	Rated Voltage	3L/N/PE; 400 (320 ~ 460) VAC
	Max. Current	722 A
	Frequency	50 (45 ~ 55) / 60 (55 ~ 65) Hz
	On/Off-Grid Switch Time	< 20 ms
	Total Harmonic Distortion	< 2% @ Linear Load
System Parameters	Thermal Management	Redundant A/C Compressor
	Fire Suppression System/Detection	Gas and Smoke Detector, CO ₂ Detector, Water Sprinkler System
	Communication	LAN + EXTERNAL EMS
	Generator Connection	Supported, Multifunction Dry Contact Relay
	Security Protection	Access Control System, Water Sensor
	Dimensions (W * D * H)	20' HQ 6.058 * 2.438 * 2.896 m
	Weight	< 22 t
	Ingress Protection	IP54
	Working Temperature	-20 ~ +50 °C
	Humidity	0 ~ 95% RH (No Condensation)
	Elevation	≤ 3000 m
	Certifications	UN38.3; IEC62619; IEC61000; IEC62040; CEI-016; EN-50549; CE



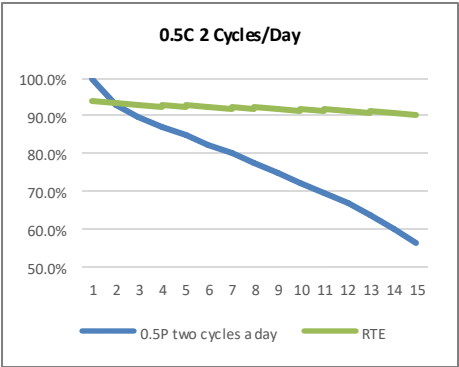
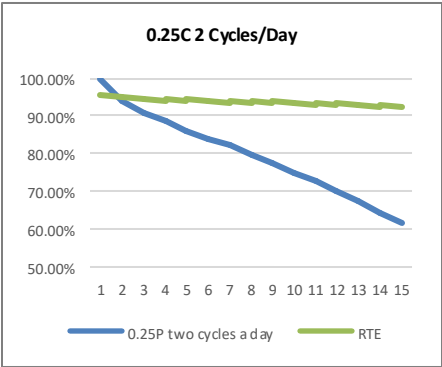
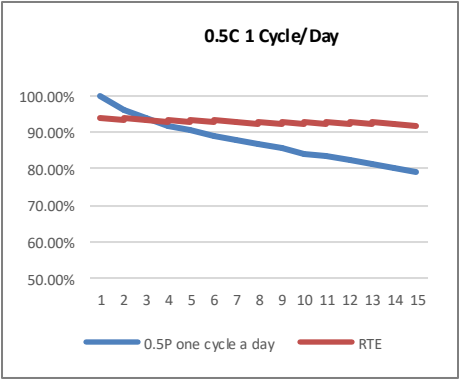
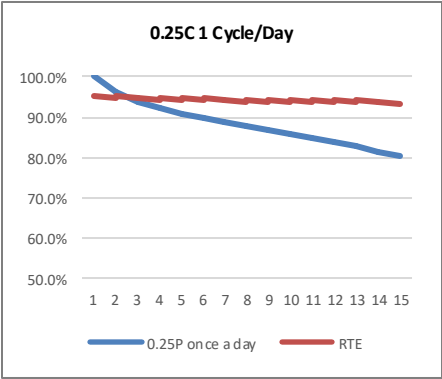
The above-mentioned temperatures are limited to the BMS ranges, such values may not be covered by the performance warranty.
We recommend contacting WeCo for the most up-to-date datasheet, read warranty and manual before making any purchasing decisions.
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ENERGY RETENTION

15 YEARS OPERATION



Retention rate 15 years operations											
Years	0.25P once a day	RTE	Available power (MWh)	0.25P two cycles a day	RTE	Available power	0.5P one cycle a day	RTE	Available power (MWh)	0.5P two cycles a day	RTE
0	100,0%	95,48%	4,877	100,00%	95,48%	4,877	100,00%	93,98%	4,838	100,0%	93,98%
1	96,3%	95,15%	4,688	93,86%	94,94%	4,565	95,82%	93,61%	4,627	93,0%	93,37%
2	93,8%	94,94%	4,561	90,62%	94,68%	4,401	93,52%	93,42%	4,511	89,8%	93,12%
3	92,1%	94,80%	4,475	88,41%	94,51%	4,290	91,74%	93,27%	4,422	87,2%	92,92%
4	90,8%	94,70%	4,410	86,03%	94,33%	4,170	90,28%	93,16%	4,349	85,0%	92,75%
5	89,9%	94,62%	4,362	84,03%	94,19%	4,070	89,00%	93,06%	4,285	82,3%	92,56%
6	88,6%	94,53%	4,299	82,02%	94,04%	3,970	87,70%	92,96%	4,220	80,1%	92,40%
7	87,6%	94,45%	4,249	79,82%	93,88%	3,860	86,50%	92,87%	4,160	77,7%	92,23%
8	86,6%	94,37%	4,199	77,53%	93,72%	3,746	85,40%	92,79%	4,106	75,0%	92,05%
9	85,6%	94,30%	4,149	75,07%	93,55%	3,624	84,20%	92,70%	4,046	72,3%	91,85%
10	84,6%	94,23%	4,099	72,70%	93,38%	3,506	83,20%	92,62%	3,996	69,4%	91,65%
11	83,6%	94,15%	4,049	70,10%	93,20%	3,378	82,20%	92,55%	3,947	66,8%	91,46%
12	82,6%	94,08%	3,999	67,24%	92,99%	3,236	81,06%	92,47%	3,890	63,6%	91,22%
13	81,6%	94,01%	3,949	64,41%	92,78%	3,096	80,10%	92,40%	3,843	60,0%	90,94%
14	80,6%	93,94%	3,899	61,58%	92,57%	2,957	79,00%	92,33%	3,788	56,4%	90,65%



Cells	Nominal Voltage	3.2	V
	Nominal Capacity	314.0	Ah
	Nominal Energy	1004.8	Wh
Container	Nominal Voltage	768	V
	Nominal Capacity	1569.0	Ah
	Nominal Energy	1.205	MWh
RTE	0.25P	95.50%	
	0.5P	94.00%	
Multi-Cluster Line Losses	Cable Loss	0.5%	
Depth Of Discharge	DOD	100%	

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FEATURES:

- High Voltage
- Cabinet Paralleling Via EMS
- Up To 20 Years Operations
- Remote Monitoring
- App & Web Portal Assistance

1.2 MWh

HIGH VOLTAGE CONTAINER**IP 54 Protection**

With its IP54 rating, it's dust-tight and water-resistant, ensuring peak performance in any outdoor scenario.

**Fire Suppression System**

Safety always comes first! Each container comes equipped with a sophisticated fire suppression system, offering unparalleled safety and peace of mind.

**Plug & Play**

Easy installation, all is plug and play. Installation method error free and with final self check control via App.

**Redundant Heating and Cooling**

Our cutting-edge temperature control system keeps the battery at the right conditions, ensuring unwavering performance even in freezing conditions.

WECO

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