

# CPS ESA-125kW/488kWhLF-H NEW

# CPS ESA-244kW/488kWhLF-H NEW

## C&I AC-Coupled Solution



### Key Features

- Adopt new 500+Ah cells to extend cycle life and shorten payback period.
- Apply top venting design to secure full-lifecycle safety.
- Use side-by-side layout to reduce footprint and raise energy density.
- Integrate smart EMS to realize peak shaving and boost overall profits.

System Name	CPS ESA-125kW/488kWhLF-H	CPS ESA-244kW/488kWhLF-H
<b>Battery</b>		
Rack battery capacity(kWh)	488	488
Rack rated voltage(V)	832	832
Rack voltage range(V)	728-936	728-936
Charge and discharge rate	0.25P	0.5P
Maximum charging power(kW)	125	244
Maximum discharging power(kW)	125	244
DOD	0.95	0.95
<b>Grid</b>		
Output Grid Type	3P4W	3P4W
Rated Output Voltage (V)	400	400
Rated Output Voltage Range (V)	340-460V	340-460V
Rated Output Apparent Power (kVA)	125	244
Rated Output Current (A)	180A @ 400 V AC	352A @ 400 V AC
Max Output Apparent Power (kVA)	137.5	268
Power Factor	1.0 leading to 1.0 lagging	1.0 leading to 1.0 lagging
Peak output power	110% @Continuous 120%@10min (Off Grid Only) 130%@60ms (Off Grid Only)	110% @Continuous 120%@10min (Off Grid Only) 130%@60ms (Off Grid Only)
Rated grid frequency(Hz)	50	50
<b>System parameters</b>		
Dimensions (Length x Width x Height)	1480*1480*2385	1480*1480*2385
Weight(t)	< 4.5	< 4.5
Operating temperature range	-30°C ~60°C (>45°C derating)	-30°C ~60°C (>45°C derating)
Operating humidity range	0%-95% (No condensation)	0%-95% (No condensation)
Protection level	IP55, C4	IP55, C4
Maximum altitude	4000 (>2000m derating)	4000 (>2000m derating)
Cooling method	PCS smart natural cooling, Pack liquid cooling	PCS smart natural cooling, Pack liquid cooling
<b>Fire Safety Equipment Parameters</b>		
Fire Safety System (FSS) Sensor	Temperature Smoke Combustible Gas	Temperature Smoke Combustible Gas
<b>Energy Management System (EMS) Equipment</b>		
External Communication	Ethernet	Ethernet
BMS Communication	MOUDBUS-TCP/RTU	MOUDBUS-TCP/RTU
PCS Communication	Ethernet	Ethernet
STS Communication	RS485	RS485
<b>Certification</b>		
Certification	IEC 62619, IEC 63056, IEC 62477-1, IEC 61000, IEC/UL 60730, UL 1973, UN 38.3	IEC 62619, IEC 63056, IEC 62477-1, IEC 61000, IEC/UL 60730, UL 1973, UN 38.3