

CPS ESA-125kW/488kWhLF-H NEW

CPS ESA-244kW/488kWhLF-H NEW

C&I AC-Coupled Solution



Key Features

- Next-generation 500+Ah cell integration with an ultra-long cell cycle life of over 10,000 cycles, delivering lower cost per kWh.
- Quickly compatible with 2-hour and 4-hour energy storage solutions.
- Shorten the investment payback period.
- Wide certification coverage enables rapid project grid connection.

System Name	CPS ESA-125kW/488kWhLF-H	CPS ESA-244kW/488kWhLF-H
Battery		
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
Grid		
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
System parameters		
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
Fire Safety Equipment Parameters		
Fire Safety System (FSS) Sensor	Temperature Smoke Combustible Gas	Temperature Smoke Combustible Gas
Energy Management System (EMS) Equipment		
External Communication	Ethernet	Ethernet
BMS Communication	MOUDBUS-TCP/RTU	MOUDBUS-TCP/RTU
PCS Communication	Ethernet	Ethernet
STS Communication	RS485	RS485
Certification		
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