

All In One Energy Storage System

»»» Three Phase Storage Solution (HV)



IP65 Outdoor Design



Modular Design
Plug & Play



AFCI Standard



Scalable Design
Up To 25.6kWh



UPS function
switch time ≤ 10ms



RSD Ready
VPP Ready

CF-PowerOne-2500W Series is an all-in-one solar and storage solution that integrates the inverter, battery charger, UPS-level switching, and battery enclosure into a pre-wired modular system for easier and faster installation. The compact, elegantly designed, and robust unit is IP65 rated, so it can be mounted either inside or outside withstanding all weather conditions and brings a reduction of installation time of up to 50%.

FOR SOLAR + ENERGY STORAGE SYSTEM

POWER 3 / 4 / 5 / 6 / 8 / 10 / 12 / 15 kW

CAPACITY 7.68kWh - 25.6kWh Battery Capacity

Technical Data

PV input									
Max. DC Input Power (kW)	5	6	7.5	9	12	15	18	22.5	
Max. PV Voltage (V)	1000								
Rated DC Input Voltage (V)	620								
DC Input Voltage Range (V)	150-1000								
MPPT Voltage Range (V)	150-850								
Full MPPT Range (V)	200-850	250-850	300-850	500-850					
Start-up Voltage (V)	160								
Max. DC Input Current (A)	20x 2								
Max. Short Current(A)	30x 2								
No. of MPPT Tracker/Strings	2/2								
Battery Port									
Battery Nominal Voltage (V)	150	200	200	250	300	350	450	500	
Battery Voltage Range (V)	80-600								
Max. Charge/Discharge Current (A)	30								
Max. Charge/Discharge Power (kw)	3	4	5	6	8	10	12	15	
Charging Curve	3 Stages								
Compatible Battery Type	Li-ion/Sodium-ion battery								
AC Grid									
Nominal AC Output Power (kW)	3	4	5	6	8	10	12	15	
Max. AC Input/Output Power (kVA)	4.5/3.3	6/4.4	7.5/5.5	9/6.6	12/8.8	15/11	18/13.2	22.5/16.5	
Max. AC Output Current (A)	5.3	7	8.5	10.5	13.5	17	21.5	27	
Nominal AC Voltage (V)	230/400								
Nominal AC Frequency (Hz)	50 / 60								
Power Factor	1(-0.8-0.8)adjustable								
Current THD (%)	< 3%								
AC Load Output (Back-up)									
Nominal Output Power (VA)	3000	4000	5000	6000	8000	10000	12000	15000	
Nominal Output Voltage (V)	230/400								
Nominal Output Frequency (Hz)	50/60								
Nominal Output Current (A)	4.4	5.8	7.3	8.7	11.6	14.5	17.4	21.8	
Peak Output Power	3300VA,60s	4400VA,60s	5500VA,60s	6600VA, 60s	8800VA, 60s	11000VA,60s	13200VA,60s	16500VA,60s	
THDV (with linear load)	< 3%								
Switching Time (ms)	< 10								
Efficiency									
CEC Efficiency	97.50%								
Max. Efficiency	98.00%				98.20%			98.30%	
PV to Bat. Efficiency	98.00%								

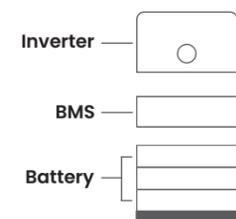
Unit 5-531 Huanghua Comprehensive Bonded Zone, No.109 Dayuan Rd, Changsha , Hunan, China 430137

www.chalongfly.com

Protection	
Reverse Polarity Protection	✓
Over Current /Voltage Protection	✓
Anti-islanding Protection	✓
AC Short-circuit Protection	✓
Leakage Current Detection	✓
Ground Fault Monitoring	✓
Grid Monitoring	✓
Enclosure Protect Level	IP65

General Data	
Dimensions (W x H x D, mm)	600 x 432 x 210
Weight (kg)	25
Topology	Transformerless
Cooling Concept	Natural Convection Intelligent Fan
Relatively Humidity	0 - 100 %
Operating Temperature Range (°C)	- 25 to 60
Operating Altitude (m)	< 4000
Noise Emission (dB)	< 40
Standby Consumption (W)	< 5
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G
Certification & Approvals	NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2
EMC	EN61000-6-2, EN61000-6-3

*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.
 *The specifications are subject to change without prior notice.



3 Packs | 4 Packs | 5 Packs | 6 Packs | 7 Packs | 8 Packs | 9 Packs | 10 Packs

7.68kWh | 10.24kWh | 12.8kWh | 15.36kWh | 17.29kWh | 20.48kWh | 23.04kWh | 25.6kWh

Model CF-PowerOne-2500W (All-In-One Stackable ESS)

Parameter	
Nominal Voltage(Vdc)	51.2
Nominal Capacity(Wh)	2560
Working Voltage Range(Vdc)	129.6-516.6
Charge Voltage(Vdc)	56.16
Nominal Charge/Discharge Current(A)	25
Max.Charge/Discharge Current(A)	50
Peak Current(A)	100@3sec
Series Connection	3-10 pcs
Cycle Life	6000 @ 80% DOD, 25°C / 0.5C

Structure	
Power Module Dimensions(mm)/Weight(kg)	600*210*250 /14
BaNery Module Dimensions(mm)/Weight(kg)	600*210*160 /27
Lampstand Module Dimensions(mm)/Weight(kg)	600*210*90 /5
Top Cap Module Dimensions(mm)/Weight(kg)	600*210*50 /2.5
IP Rating	IP65
Environment	Indoor/outdoor under roof(avoid direct sunlight)
Installation	Stacked

Working Environment	
Charge Working Temperature(°C)	0-55
Discharge Working Temperature(°C)	-20~60
Altitude(M)	<2500
Humidity(RH)	5-95% (w/o condensing)

Communication	
Communication Port	RS485, CAN
Display	SOC status indicator, LED indicator

Certification	
CB, IEC62619, CE-EMC, CE-GPSP, UKCA, UL1973, UL9540A, EN62040, IEC62040; UN38.3, MSDS	

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