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Flyfine is a Leading lithium ion battery manufacturer and supplier in China, which was founded in 2007 and its headquarter in Guangzhou with 15 years of experience in comprehensive energy solution. Factory is located in Huizhou, China, and covers an area of 15,000+ square meters and 350 workers. We are committed to manufacturing and designing integrated battery packs for Lifepo4 and one-stop energy storage solutions. To meet the needs of the smart and green energy era, We always believe that new energy is the direction of future development, and fly fine will provide you with perfect intelligent power energy system solutions with the best after-sales service.





Wall-Mounted Battery

- / Industry leading smart monitoring system with the LCD touch screen
- / Self-developed inverter protocol conversion module
- / Compatible with 15 + brands inverter
- / Long-lasting 6500 + cycles with 10 years warranty
- / Accept OEM design of hardware and software
- / IEC , UL ,CE , ROHS , UN38.3 , MSDS certified
- / Bluetooth / WIFI function (optional) , check the status and performance from your phone



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Battery Model	FFPRO-5000W	FFPRO-7000W	FFPRO-10000W
Nominal Voltage/V	51.2V(16series)		
Nominal Capacity	100Ah	150Ah	200Ah
Energy	5.12KWh	7.68KWh	10.24KWh
Internal Resistance	≤30mΩ		
Cycle Life	≥6500 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C		
Design Life	≥10 years		
Charge Cut-off Voltage	56.0V±0.5V		
Max.Continuous Work Current	100A/150A (Can choose)		
Discharge Cut-off Voltage	45V±0.2V		
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)		
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)		
Storage Temperature	-40°C~55°C@60%±25% relative humidity		
Dimensions	680×485×180(220) mm		
Weight	Approx:62kg	Approx:79kg	Approx:95kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inberter		
Maximum number of parallel connections	10		
Certificate	UN38.3,MSDS,UL1973(cell),IEC62619(cell)		

Battery Model	FFD-10000W	FFD-15000W
Nominal Voltage/V	51.2V	51.2V
Nominal Capacity	200Ah	300Ah
Energy	10.24KWh	15.36KWh
Internal Resistance	≤80mΩ	≤200mΩ
Cycle Life	≥6500 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C	
Design Life	≥10 years	
Charge Cut-off Voltage	58.4V	57V
Max.Continuous Work Current	100A	
Discharge Cut-off Voltage	44.8V	46V
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)	
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)	
Storage Temperature	-20°C~60°C(-4°F~140°F)	
Dimensions	320×400×500mm	350×320×700mm
Weight	82.1Kg	115Kg
Protocol(optional)	RS232/RS485/CAN	
Certificate	ISO,SE,UL,UN38.5,PSE,ROHS,FCC	



Stacked Type Battery

- / Support multiple communication protocol
- / Capacity range of 10-25kwh for choice
- / Easy capacity expansion by parallel
- / Easy installation



Energy Storage Cabinet

- / Could support 10pcs in parallel
- / Low self-discharge, stable power supply
- / Strengthening performance
- / Safety, durable and easy to install and operate
- / With built-in intelligent BMS to monitor the battery status
- / Increase energy sufficiency and security.save electric bills



Battery Model	FF-Box-15000W/LV	FF-Box-20000W/LV	FF-Box-25000W/LV	FF-Box-30000W/LV
Nominal Voltage/V	153.6V(48series)	204.8V(64series)	256V(80series)	307.2V(96series)
Nominal Capacity	100Ah			
Energy	15.36KWh	20.48KWh	25.6KWh	30.72KWh
Internal Resistance	<80mΩ	<100mΩ	<120mΩ	<150mΩ
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C			
Design Life	≥10 years			
Charge Cut-off Voltage	168V±0.5V	228V±0.5V	284V±0.5V	340V±0.5V
Max.Continuous Work Current	100A			
Discharge Cut-off Voltage	135V±0.5V	180V±0.5V	225V±0.5V	270V±0.5V
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)			
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)			
Storage Temperature	-40°C~55°C@60%±25% relative humidity			
Dimensions	745×415×590mm	930×415×590mm	1120×415×590mm	1300×415×590mm
Weight	195Kg	260Kg	310Kg	360Kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter			
Certificate	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell),			

Battery Model	FF-Box-48600	FF-Box-48800	FF-Box-481000	FF-Box-481200	FF-Box-481400	FF-Box-481500
Nominal Voltage	48V/51.2V(optional)					
Nominal Capacity	600Ah	800Ah	1000Ah	1200Ah	1400Ah	1600Ah
Energy	30KWH	40KWH	50KWH	60KWH	70KWH	80KWH
Internal Resistance	<60mΩ					
Cycle Life	≥6500 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C					
Design Life	≥10 years					
Charge Cut-off Voltage	53V±0.5V(15S) ; 56.0V±0.5V(16S);					
Max.Continuous Work Current	200A	300A	400A	400A	400A	400A
Discharge Cut-off Voltage	45V±1.0V(15S) ; 48V±1.0V(16S);					
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)					
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)					
Storage Temperature	-40°C~55°C@60%±25% relative humidity					
Dimensions	600*600*988	600*600*1166	600*600*1388	600*600*1610	600*600*1833	600*600*2055
Weight	350Kg	460Kg	570Kg	680Kg	780Kg	900Kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter					
Maximum number of parallel connections	10					
Certificate	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell),					

Rack-Mounted Battery

- / Make stored energy available at night or during power outages
- / Utilize green energy, be environmentally friendly, save electricity bills, and reduce dependence on the power grid
- / Smart BMS with RS485,RS232,CAN for matching with multiple brand inverters
- / Indicating light to show battery SOC
- / Grade A LiFePo4,stable and safe,long life.



Lifepo4 Battery

- / Replace of lead acid battery in multiple application
- / ABS case with waterproof and rust proof
- / BMS with bluetooth
- / good price with good quality
- / Grade A LiFePo4,stable and safe,long life.



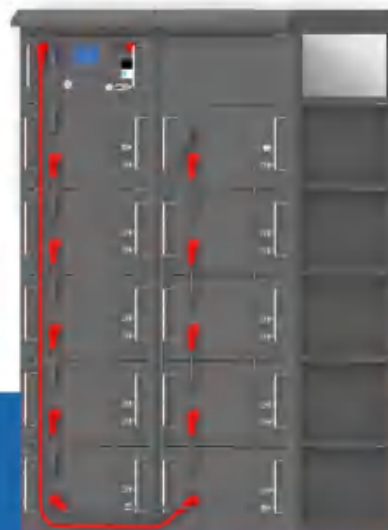
Battery Model	FF-Box-48200W/LV	FF-Box-48300W/LV	FF-Box-48400W/LV	FF-Box-48500W/LV	FF-Box-48600W/LV
Nominal Voltage/V	48V/51.2V(Optional)				
Nominal Capacity	200Ah	300Ah	400Ah	500Ah	500Ah
Energy	10KWh	15KWh	20KWh	25KWh	30KWh
Internal Resistance	<60mΩ				
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C				
Design Life	≥10 years				
Charge Cut-off Voltage	53V±0.5V(15S);56.0V±1.0V(16S);				
Max.Continuous Work Current	100A	200A	300A	300A	300A
Discharge Cut-off Voltage	45V±1.0V(15S);48V±1.0V(16S);				
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)				
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)				
Storage Temperature	-40°C~55°C@60%±25% relative humidity				
Dimensions	483×460(510)×186mm	483×460(510)×372mm	483×460(510)×558mm	483×460(510)×744mm	483×460(510)×930mm
Weight	110Kg	165Kg	230Kg	285Kg	340Kg
communication Protocol	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter				
Maximum number of parallel connections	10				
Certificates	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell),				

Battery Model	FF-12V100Ah	FF-12V200Ah	FF-24V100Ah	FF-24V200Ah
Nominal Voltage	12V	12V	24V	24V
Nominal Capacity	100AH	200AH	100AH	200AH
Nominal Power	1.2KWH	2.4KWH	2.4KWH	4.8KWH
Maximum continuous discharge current	50A			
Maximum charging current	30A	40A	20A	40A
Lifespan	80%DOD, > 6500 times			
BMS protection	with BMS management system			
Warranty	3years			
Weight	12.5KG	22KG	22KG	42.5KG
(L*W*H) Size	260*168*209mm	483*170*230mm	483*170*230mm	522*240*218mm
Certificates	ISO,CE,UL,UN38.5,PSE,ROHS,FCC			
Application	For low speed vehicles,Electric cars,RVs,golf carts,lifts,boats,etc			



Industry/Business Batteries

- / Capacity range of 76.8kwh-215kwh for choice
- / High voltage 512-768V for project
- / Maximum 4 pcs Parallel
- / Smart monitor function with LCD screen



Industry/Business Batteries

- / Capacity range of 76.8kwh-215kwh for choice
- / High voltage 512-768V for project
- / Maximum 4 pcs Parallel
- / Smart monitor function with LCD screen



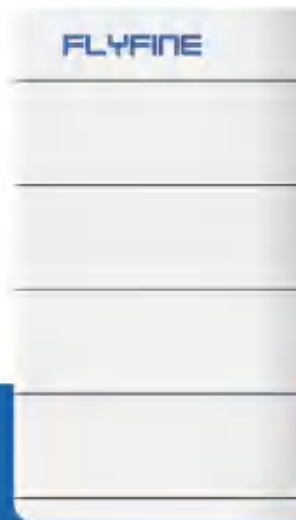
Battery Model	FF-51200W	FF-76800W
Nominal Voltage/V	512V	768V
Nominal Capacity	102.4V100Ah	51.2V100Ah
Capacity	100Ah	
Energy	51.2KWh	76.8KWh
Internal Resistance	≤200mΩ	≤300mΩ
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C	
Design Life	≥10 years	
Charge Cut-off Voltage	560V±2V	840V±2V
Max.Continuous Work Current	100A	
Discharge Cut-off Voltage	440V±0.2V	672V±0.2V
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)	
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)	
Storage Temperature	-40°C~55°C@60%±25% relative humidity	
Dimensions	520×1510×1510 mm	520×1020×2000 mm
Weight	Approx:550kg	Approx:860kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inberter	
Certificates	UN38.3,MSDS,UL1973(cell),IEC62619(cell)	
Maximum number of parallel connections	4	

Battery Model	FF-102400W	FF-153600W
Nominal Voltage/V	512V	768V
Nominal Capacity	51.2V200Ah	
Capacity	200Ah	
Energy	102.4KWh	153.6KWh
Internal Resistance	≤200mΩ	≤300mΩ
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C	
Design Life	≥10 years	
Charge Cut-off Voltage	560V±2V	840V±2V
Max.Continuous Work Current	100A	
Discharge Cut-off Voltage	440V±0.2V	672V±0.2V
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)	
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)	
Storage Temperature	-40°C~55°C@60%±25% relative humidity	
Dimensions	520×1020×1510 mm	520×1020×2000 mm
Weight	Approx:1100kg	Approx:1600kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inberter	
Certificates	UN38.3,MSDS,UL1973(cell),IEC62619(cell)	
Maximum number of parallel connections	4	



Industry/Business Batteries

- / Capacity range of 76.8kwh-215kwh for choice
- / High voltage 512-768V for project
- / Maximum 4 pcs Parallel
- / Smart monitor function with LCD screen



High Voltage Batteries EV

- / Support multiple communication protocol
- / Capacity range of 10-25kwh for choice
- / Easy capacity expansion by parallel
- / Simple and elegant design
- / Easy installation



Battery Model	FF-143360W	FF-215040W
Nominal Voltage/V	512V	768V
Nominal Capacity	51.2V280Ah	51.2V280Ah
Capacity	280Ah	
Energy	143.36KWh	215.05KWh
Internal Resistance	≤200mΩ	≤300mΩ
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C	
Design Life	≥10 years	
Charge Cut-off Voltage	560V±2V	840V±2V
Max.Continuous Work Current	100A/200A	
Discharge Cut-off Voltage	440V±0.2V	672V±0.2V
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)	
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)	
Storage Temperature	-40°C~55°C@60%±25% relative humidity	
Dimensions	720×1020×1510 mm	720×1020×2000 mm
Weight	Approx:1250kg	Approx:1900kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inberter	
Certificates	UN38.3,MSDS,UL1973(cell),IEC62619(cell)	
Maximum number of parallel connections	4	

Battery Model	FF-Box-10000W/LV	FF-Box-15000W/LV	FF-Box-20000W/LV	FF-Box-25000W/LV
Nominal Voltage/V	204.8V(64series)	307.2V(96series)	409.6V(128series)	512V(160series)
Nominal Capacity	50Ah	50Ah	50Ah	50Ah
Energy	10KWh	15KWh	20KWh	25KWh
Internal Resistance	≤80mΩ	≤100mΩ	≤120mΩ	≤150mΩ
Cycle Life	≥5000 cycles @ 80% DOD, 25°C, 0.5C ≥4000 cycles @ 80% DOD, 40°C, 0.5C			
Design Life	≥10 years			
Charge Cut-off Voltage	228V±2V	340V±2V	450V±2V	560V±2V
Max.Continuous Work Current	100A			
Discharge Cut-off Voltage	180V±2V	270V±2V	350V±2V	440V±2V
Charge Temperature	0°C~60°C(Under 0°C extra heating mechanism)			
Discharge Temperature	-20°C~60°C(Under 0°C work with reduced capacity)			
Storage Temperature	-40°C~55°C@60%±25% relative humidity			
Dimensions	630×185×930mm	630×185×1265mm	630×185×1600mm	630×185×1935mm
Weight	130Kg	180Kg	230Kg	280Kg
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter			
Certificates	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell),			

All In One Off grid/Grid-tie (EU Version)

- / Support own use+sell electricity to the grid
- / Programmable supply priority for PV, battery or Grid
- / User-adjustable battery charging current.
- / multiple operation modes: Grid-tie ,off-grid and grid-tie +backup
- / Built-in timer for various mode of on/off operation.
- / Multiple communication USB,RS232,Modbus,
- / SNMP,GPRS and Wi-Fi.
- / Real-time status monitor display and control
- / Enhance AC/Solar charger to 60A
- / Scalable Li-Ion battery expansion
- / Li-Ion battery life cycle:6500 cycles at 25°C
- / High surge discharging current up to 3C
- / IP 20



Model	FF-5510-EY1A1	FF-5520-EY1A1
	Inverter	
Maximum PV Input Power	6500W	
Rated Output Power	5500W	
Maximum Charging Power	2880W	
	PV INPUT(DC)	
Nominal DC Voltage / Maximum DC Voltage	360VDC / 500VDC	
Start-Up Voltage / Initial Feeding Voltage	116VDC / 150VDC	
MPPVoltage Range	120VDC~450VDC	
Number of MPP Trackers / Maximum Input Current	2/2X13A	
	GRID OUTPUT(AC)	
Nominal Output Voltage	208/220/230/240VAC	
Output Voltage Range	184-264.5VAC*	
Maximum Output Current	23.9A*	
Maximum Conversion Efficiency(DC/AC)	96%	
European Efficiency@Vnominal	95%	
	AC Input	
AC Start-Up Voltage/ Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	170-280VAC	
Maximum AC Input Current	40A	
	Battery Modeoutput (AC)	
Nominal Output Voltage	208/220/230/240VAC	
Efficiency(DC to AC)	93%	
	Battery Tednical Speafications	
Nominal DC Voltage	51.2VDC	
Battery Capacity	200AH	400AH
Maximum Charging Current	120A	200A
Dimension, D×W×H(mm)	214×621×1205	214×621×1755
Net Weight (kg)	140	235
Energy	10.24KWH	20.48KWH
Protocol(optional)	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter	
Full Charge Voltage(FC)	56V	
Full Discharge Voltage(FD)	45V	
BMS protection	with BMS management system	
Cycle life	≥4000/80%DOD@25°C	
Protection	BMS,inverter,Breaker	
working temperature/humidity	0-55°C/0-80°CRH	
Inner Resistance	<20 mΩ	

All In One - Off grid(EU Version)

- / Support own use+sell electricity to the grid
- / Programmable supply priority for PV,battery or Grid
- / User-adjustable battery charging current.
- / multiple operation modes:Grid-tie ,off-grid and grid-tie +backup
- / Built-in timer for various mode of on/off operation.
- / Multiple communication USB,RS232,Modbus,
- / SNMP,GPRS and WI-FI.
- / Real-time status monitor display and control
- / Enhance AC/Solar charger to 60A
- / Scalable Li-Ion battery expansion
- / Li-Ion battery life cycle:6500 cycles at 25°C
- / High surge discharging current up to 3C
- / IP 20



Battery Model	FF-8010-EY1A1	FF-8020-EY1A1
	Inverter	
Maximum PV Input Power	8000W (4000*2)	
Rated Output Power	8000W	
Max Output Power	16000W	
Maximum Charging Power	6000w grid 7500wPV	
	PV INPUT(DC)	
Nominal DC Voltage / Maximum DC Voltage	360VDC/500VDC	
MPPVoltage Range	90VDC~450VDC	
Number of MPP Trackers	2	
	GRID OUTPUT(AC)	
Nominal Output Voltage	230±5%	
No-load Power Consumption	≤75W	
AC Output Frequency	50/60HZ	
Maximum Conversion Efficiency(DC/AC)	93%	
	ACINPUT	
Acceptable Input Voltage Range	170-280 VAC/90-280VAC	
Input Frequency	50/60HZ	
Grid Type	L+N+PE	
	Battery Modeoutput(AC)	
Nominal Output Voltage	208/220/230/240VAC	
Efficiency(DC to AC)	93%	
	Battery Tednical Speaifications	
Nominal DC Voltage	51.2VDC	
Battery Capacity	200Ah	400Ah
Maximum Charging Current	150A	200A
Energy	10.24KWH	20.48KWH
Full Charge Voltage(FC)	56V	
Full Discharge Voltage(FD)	45V	
BMS protection	with BMS management system	
Inner Resistance	<20mOhm	
Battery Cycle life	≥4000/80%DOD@25°C	
Dimension, D×W×H(mm)	214*621*1205	214*621*1755
Net Weight (kg)	140KG	235KG
Operation temperature/humidity range	0-55°C/0-80%RH	
Communication Protocols	WIFI or Rs232	
Certificates	CE-EMC	
Output Wave	Pure shine wave	

All In One Storage System(US Version)

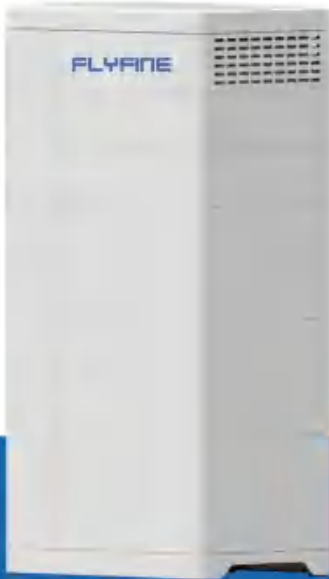


- / Pure sine wave output
- / Self-consumption and Feed-back to the Grid
- / Programmable supply priority for PV, battery or Grid
- / User-adjustable battery charging current
- / Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- / Built-in timer for various mode of on/off operation
- / Multiple communication for USB and Wi-Fi
- / Monitoring software for real-time status display and control
- / Enhance AC/Solar charger to 190A
- / Scalable Li-Ion battery expansion
- / Li-Ion battery life cycle: 6500 cycles at 25°C
- / High surge discharging current up to 2C
- / IP 54



Battery Model		FF-8KEU-20	
Input Parameters (DC)			
Pv Input Power	12KW		
Max DC voltage	500V		
MPPT Maximum input current	12A*4		
MPPT voltage rage	120~500V		
Number of MPPT components in parallel	4/1		
output parameter			
Rate AC Output Power	8KVA		
Max Output Current	38.3A		
AC Output Voltage	120/240Vac(split phase), 208Vac(2/3phase), 230Vac(single phase)		
AC Output Frenquecny	50/60Hz		
PF	-0.8leading~+0.8lagging		
Output THDI	<2%		
Grid Type	Split phase, 2/3phase, Single Phase		
Output parameter protection			
Grounding Protection	Yes		
Arc pull detection	Yes		
Islanding protection	Yes		
Battery unconnected detection	Yes		
Battery reverse connection protection	Yes		
Battery charge/discharge protection	Yes		
Leakage detection	Yes		
lightning protection (DC)	Yes		
lightning protection (AC)	Yes		
Input voltage protection	Yes		
Output voltage protection	Yes		
overcurrent protection (AC)	Yes		
Short circuit protection (AC)	Yes		
Battery			
Nominal Voltage	51.2V		
Typical Capacity	200Ah	400Ah	
Storage battery	10.24KWH	20.48KWH	
maximum operating current	200A		
Battery Cycle life	4000Cycles(80%DOD)		
General Data			
Operation temperature	-20~60°C		
Environment Humidity	0-95%RH		
Dimension, D×W×H(mm)	650*542*1970		
Net Weight(kg)	240	340	
Communication Protocols	WIFI/4G		

Stacked Storage Battery(EU Version)



- / High-precision MPPT control,maximize the use of solar energy and increase photovoltaic power generation.
- / High-precision electricity meter,anti-backflow/load power consumption monitoring
- / Ip65 protection grade,suitable for harsh environments such as high altitude, high temperature,high cold,etc.,long-term continuous and reliable operation.
- / Lifetime design up to 25 years.
- / Support on-grid and off-grid uninterrupted switching.
- / With energy management function,unmanned and EMS-free operation.
- / A variety of working modes to meet the diverse needs of customers.
- / Flexible configuration,optional photovoltaic/mains charging mode,optional lithium battery/lead-acid/lead-carbon battery
- / Support Wi-Fi,GPRS wireless monitoring method



Battery Model	FF-8KH3E	FF-10KH3E	FF-12KH3E		
				PV INPUT(DC)	
Max PV input voltage	10.4KW	13KW			15.6KW
Nominal DC Voltage /Maximum DC Voltage		1000V			
Number of MPP Trackers		12.5			
MPP Voltage Range		180~850			
MPPT		2/1			
				output parameter	
Rated Power	8.8KW	11KW			13.2KW
Rated Output Current	12.7A	15.9A			19.1A
Rated output voltage		400/360-400			
Rated Frenquecny		50/60Hz			
PF		0.8cap-0.8ind			
Total Harmonic Distortion THD		<3%			
Grid Type		3W+N+PE			
				Emergency power output	
Rated Power	8.8KW	11KW			13.2KW
Rated output voltage		400V			
Rated Output Current	12.7A	15.9A			19.1A
Rated Frenquecny		50/60Hz			
Auto Switch Time		≤20ms			
Total Harmonic Distortion THD		<2%			
Overload capacity		110%.60S/120%.30S/150%.10S			
				Efficiency	
MPPT Efficiency	99.5%	99.5%			99.5%
CE Efficiency	97.2%	97.5%			97.5%
Maximum Efficiency	97.9%	98.2%			98.2%
Battery Charge/ Discharge Efficiency(%)	96.6%	96.7%			96.8%
Shutdown power		≤3W			
Noise level		≤35dB			
				Battery Parameters	
Nominal DC Voltage	204.8	256	307.2	358.4	409.6
Battery Capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Energy Kwh	20.48	25.6	30.72	35.84	40.96
Maximum Discharging Current		50A			
Battery Cycle life		4000Cycles(80%DOD)			
				System Parameter	
Operation temperature		-20~60°C			
humidity range		0-95°C			
Dimension(D*W*H)(mm)	1044*778*582	1196*778*582	1348*778*582	1500*778*582	1652*778*582
Net Weight(kg)	280	325	370	420	470
Communication Protocols		WIFI/4G			



Stacked Storage Battery(US Version)



- / High-precision MPPT control,maximize the use of solar energy and increase photovoltaic power generation.
- / High-precision electricity meter,anti-backflow/load power consumption monitoring
- / Ip65 protection grade,suitable for harsh environments such as high altitude, high temperature,high cold,etc.,long-term continuous and reliable operation.
- / Lifetime design up to 25 years.
- / Support on-grid and off-grid uninterrupted switching.
- / With energy management function,unmanned and EMS-free operation.
- / A variety of working modes to meet the diverse needs of customers.
- / Flexible configuration,optional photovoltaic/mains charging mode,optional lithium battery/lead-acid/lead-carbon battery
- / Support Wi-Fi,GPRS wireless monitoring method



Battery Model	FF-6KHINA	FF-8KHINA	FF-10KHINA	FF-12KHINA	
PV INPUT(DC)					
Max PV input voltage	7.8KW	10.4KW	13KW	15.6KW	
Nominal DC Voltage /Maximum DC Voltage	500W				
Number of MPP Trackers	12A*4				
MPP Voltage Range	125-500V				
MPPT	4/1				
output parameter					
Rated Power	6KW	8KW	10KW	12KW	
Rated Output Current	27.3A	36.4A	45.4A	50A	
Rated output voltage	240/211-264				
Rated Frenquecny	50/60Hz				
PT	0.8cap~0.8ind				
Total Harmonic Distortion THD	<3%				
Grid Type	L+N+PE				
Emergency power output					
Rated Power	6KW	8KW	10KW	12KW	
Rated output voltage	220-240/110-120(External split-phase Transformer)				
Rated Frenquecny	50/60Hz				
Auto Switch Time	≤20ms				
Total Harmonic Distortion THD	≤2%				
Overload capacity	110%.60S/120%.30S/150%.10S				
Efficiency					
CE Efficiency	97.2%				
Maximum Efficiency	98.2%				
Cooling methods	Natural Cooling				
Shutdown power	≤2.5W(≤5Wwith battery)				
Noise level	≤25dB		≤29dB		
Certificates	UL1741SA all options,UL1699B,CAS22.2				
Certificates	IEEE1547,LEEE2030.5,Hawaii Rules14H,Rule2IPhasel.II.III				
Battery Parameters					
Nominal DC Voltage	204.8	256	307.2	358.4	409.6
Battery Capacity	100Ah	100Ah	100Ah	100Ah	100Ah
Energy Kwh	20.48	25.6	30.72	35.84	40.96
Maximum Discharging Current	50A				
Battery Cycle life	4000Cycles (80%DOD)				
Certificates	UN38.3,MSDS,UL1973(Cell),LEC62619(Cell)				
System Parameter					
Operation temperature	-20~60°C				
humidity range	0-95%				
Dimension(DxWxH)(mm)	1044*778*582	1196*778*582	1348*778*582	1500*778*582	1652*778*582
Net Weight(kg)	280	325	370	420	470
Communication Protocols	WIFI/4G				

Industry/Bussiness Batteries-PCS Inverter

- / Programmable supply priority for grid,PV,battery
- / PV MPPT support capacity expansion
- / All in one deisgn, support integrate with appliance, battery,grid, diesel generator,PV
- / Integrated EMS function, stable power supply, high efficiency
- / Switch Grid-tie to Off-grid anytime
- / Pre-judge the supply hours left
- / Built-in transformer



Battery Model	FF-PS030	FF-PS050	FF-PS0100	FF-PS030	FF-PS050	FF-PS0100
PV INPUT(DC)						
Max PV input voltage	36KW	60KW	120KW	180KW	275KW	550KW
Nominal DC Voltage /Maximum DC Voltage	1000V					
MPP Voltage Range	520-850VDC					
Aynchronize And Close						
Rated Power	33KVA	55KVA	110KVA	165KVA	275KVA	550KVA
Active Power	30KVA	50KVA	100KVA	150KVA	250KVA	500KVA
Voltage rage	400V/320-460V					
Rated Frenquecny	50/60Hz					
Power Factors	0.8cap-0.8ind					
Total Harmonic Distortion THD	<3%					
Grid Type	3W+N+PE					
Off-Network						
Rated Power	33KVA	55KVA	110KVA	165KVA	275KVA	550KVA
Active Power	30KVA	50KVA	100KVA	150KVA	250KVA	500KVA
Rated output voltage	400V					
Rated Frenquecny	50/60Hz					
Power Factors	0.8cap-0.8ind					
Total Harmonic Distortion THD	≤2%					
Overload capacity	110%,10min/120%,1min					
General Parameter						
Dimension,D×W×H(mm)	800*800*2050		1800*800*2050	2800*800*2050	2800*1050*2050	
Net Weight(kg)	440Kg	620Kg	900Kg	1250Kg	1700Kg	3520Kg
Operation temperature	-25-55°C					
Humidity	0-95%					
Protection grade	Ip20					
Noise level	≤65dB					
Cooling methods	Intelligent Air Cooling					
Shutdown power	≤30W					
Display	LED					
Communication Protocols	Rs485/Can-bus					



Low Speed Vehicle Battery

- / Special design for vehicle
- / Rust proof cold rolled steel sheet metal case
- / Easily to move with two handles
- / Smart BMS with CAN for data management
- / Coulometer for showing battery soc
- / Grade A LiFePo4, stable and safe, long life.



AGV Battery



- / Charge-discharge share the same port, easily to operate
- / Rust proof cold rolled steel sheet metal case
- / Easily to move with two handles
- / Special design for motor bike battery exchange.
- / Grade A LiFePo4, stable and safe, long life.



Battery Model	E3-64V30AH
Nominal Voltage	64V
Nominal Capacity	30AH
Nominal Power	1.92KWH
Maximum continuous discharge current	40A
Instantaneous maximum discharge current	55A
Maximum charging current	20A
Maximum charging voltage	73V
Recommended charging current	10A
Lifespan	80%DOD, >6500 times
BMS protection	overcharge and overdischarge low voltage short circuit protection
Warranty	3years
Weight	16.5KG
(L*W*H) Size	220*160*300mm
Certificate	ISO,CE,UL,UN38.5,PSE,ROHS,FCC
Applicable scene	For low speed vehicles, Electric cars, RVs, golf carts, lifts, boats, etc

Battery Model	E3-25.6V50AH
Battery Material	Grade A lifepo4
Nominal Voltage	25.6V
Nominal Capacity	50AH
Nominal Power	1.28KWH
Max continuous discharge current	30A
Max charging current	20A
Battery life	80%DOD, >6500 times
Management system	with BMS management system Overcharge, overdischarge and low voltage short circuit protection for the battery pack
Warranty	3years
Weight	15KG
(L*W*H) Size	370*177*116mm
Certificate	ISO, CE, UL, UN38.5, PSE, ROHS, FCC
Applicable scene	AGV

Forklift Battery

- / Fast charge and discharge rate
- / Clean and Opportunity charging
- / Safety and environmental protection
- / Maintenance-free
- / Long life & 3 years warranty



Golf Cart Battery

- / Charge-discharge share the same port,easily to operate
- / Rust proof cold rolled steel sheet metal case
- / Easily to move with two handles
- / Special design for motor bike battery exchange.
- / Grade A LiFePo4,stable and safe,long life.



Battery Model	E3-51.2V/412AH
Battery Material	Grade A Lifepo4
Nominal Voltage	51.2V
Nominal Capacity	412Ah
Nominal Power	21.1KWH
maximum continuous discharge current	350A
Maximum continuous charging current	300A
charge and discharge port	Anderson SB*350
Battery life	80%DOD,>6500 times
Management system	with BMS management systemOvercharge, overdischarge and low voltage short circuit protection for the battery pack
Warranty	3 years
Weight	400KG
(L*W*H) Size	800*630*400mm
Operating temperature	Charge:0°C~+55°C/discharge:-20°C~+55°C
Certificate	ISO, CE, UL, UN38.5, PSE, ROHS, FCC
Applicable scene	Electric forklift

Battery Model	E3-72V100AH
Nominal Voltage	76.8V
Nominal Capacity	100Ah
Nominal Power	7.68KWH
Maximum continuous discharge current	100A
Instantaneous maximum discharge current	200A
Maximum charging current	50A
Maximum charging voltage	87.6V
Recommended charging current	20A
Lifespan	80%DOD, > 6500 times
BMS protection	overcharge and overdischarge low voltage short circuit protection
Warranty	3years
Weight	65KG
(L*W*H) Size	1015*335*427mm
Certificate	ISO,CE,UL,UN38.5,PSE,ROHS,FCC
Applicable scene	For low speed vehicles,Electric cars,RVs,golf carts,lifts,boats,etc

INSTALLATION EXAMPLE



EXHIBITION SHOW

