

TO A BETTER FUTURE

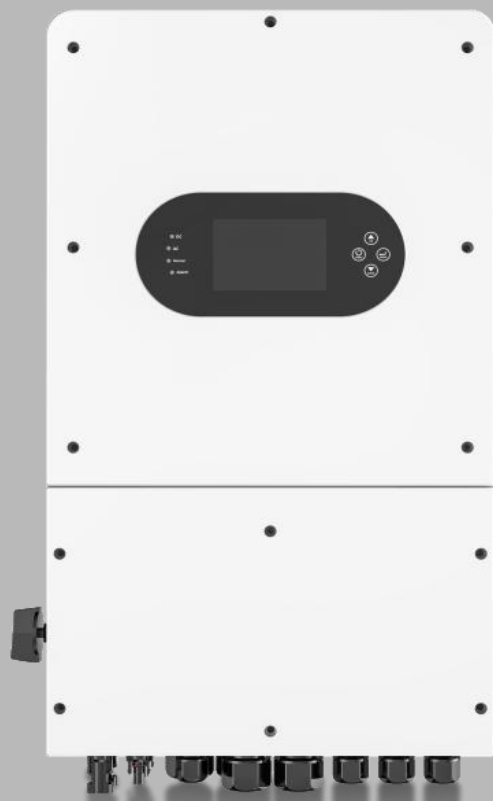


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PROFESSIONAL ENERGY STORAGE SYSTEM



Single Phase Hybrid Inverter

Product Model
PD060/80/100/120G-SPM-EU



COLORFUL TOUCH LCD, IP65 PROTECTION DEGREE



AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM



MAX. 16 PCS PARALLEL FOR ON-GRID AND Off-GRID OPERATION;SUPPORT MULTIPLE BATTERIES PARALLEL



MAX. CHARGING/DISCHARGING CURRENT OF 135A



6 TIME PERIODS FOR BATTERY CHARGING/DISCHARGING



SUPPORT STORING ENERGY FROM DIESEL GENERATOR

Model	PD0060G-SPM-EU	PD0080G-SPM-EU	PD0100G-SPM-EU	PD0120G-SPM-EU
PV String Input				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	370 (125-500)			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Full Load MPPT Voltage Range (V)	200-425			
Max. DC Input Current(A)	20+20	26+26	26+26+26	
Max. DC Short Circuit Current(A)	22+22	34+34	34+34=34	
No.of MPPT Trackers	2		3	
No.of Strings per MPPT Tracker	1+1	2+2	2+2+2	
AC Output				
Rated AC Output Power (W)	6000	8000	10000	12000
Max AC Output Power (W)	6600	8800	11000	13200
AC Output Rated Current (A)	27.3	36.4	43.5	52.2
Max AC Output Current (A)	30	40	47.8	57.4
Max. Continuous AC Passthrough(A)	40	50	60	60
Peak Power (off grid)	2 times of rated power, 10 S			
Power Factor	0.8 leading - 0.8 lagging			
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% In			
Battery				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	135	190	220	250
Max. Discharging Current (A)	135	190	220	250
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	99.9%			
Protection				
PV Arc Fault Detection	Yes			
PV Input Lightning Protection	Yes			
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity Protection	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Over Voltage Category	Yes			
Surge Protection	DC Type II / AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Operating Temperature Range (°C)	-40-60°C, >45°C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤30 dB			
Communication to BMS	RS485; CAN			
Monitoring mode	Wi-Fi+APP			
Weight (kg)	24	29	31	31
Size (W x H x D mm)	580x330x252	630x413x258	330W×580H×232D	330W×580H×232D
Ingress Protection	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			



Three Phase Hybrid Inverter

Product Model

PD060/80/100/120G-TPM-EU



100% THREE-PHASE UNBALANCED OUTPUT,
WITH EACH PHASE CAPABLE OF DELIVERING
UP TO 50% OF THE RATED POWER



MAX. CHARGING/DISCHARGING
CURRENT OF 240A



AC COUPLING TO RETROFIT
EXISTING SOLAR SYSTEM



48V LOW VOLTAGE BATTERY,
TRANSFORMER SOLUTION DESIGN



MAX. 10 PCS PARALLEL FOR ON-GRID
AND OFF-GRID OPERATION; SUPPORT
MULTIPLE BATTERIES PARALLEL



6 TIME PERIODS FOR BATTERY
CHARGING/DISCHARGING

Model	PD0060G-TPM-EU	PD0080G-TPM-EU	PD0100G-TPM-EU	PD0120G-TPM-EU
PV String Input				
Max. DC Input Power (W)	7800	10400	13000	15600
Rated PV Input Voltage (V)	550 (160-800)			
Start-up Voltage (V)	160			
MPPT Voltage Range (V)	200-650			
Full Load MPPT Voltage Range (V)	350-650			
Max. DC Input Current(A)	13+13		26+13	
Max. DC Short Circuit Current(A)	17+17		34+17	
No.of MPPT Trackers	2			
No.of Strings per MPPT Tracker	1+1		2+1	
AC Output				
Rated AC Output Power (W)	6000	8000	10000	12000
Max AC Output Power (W)	6600	8800	11000	13200
AC Output Rated Current (A)	9.1	12.1	16.7	18.2
Max AC Output Current (A)	10	13.4	18.4	20
Max Output short circuit current (A)	75			
Max. Continuous AC Passthrough(A)	45			
Peak Power (off grid)	2 times of rated power, 10 S			
Power Factor	0.8 leading - 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac			
Grid Type	Three Phase			
Total Harmonic Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5% In			
Battery				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	120	160	200	240
Max. Discharging Current (A)	120	160	200	240
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equalization			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	99.0%			
Protection				
Anti-islanding Protection	Yes			
PV String Input Reverse Polarity	Yes			
Insulation Resistor Detection	Yes			
Residual Current Monitoring Unit	Yes			
Output Over Current Protection	Yes			
Output Shorted Protection	Yes			
Output overvoltage protection	Yes			
Photovoltaic input lightning	Yes			
Surge Protection	DC Type III / AC Type III			
Over Voltage Category	DC Type II/AC Type III			
Certifications and Standards				
Grid Regulation	IEC61727/62116,EN50549-1			
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			
General Data				
Operating Temperature Range (°C)	-40-60°C, >45°C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤50 dB			
Communication to BMS	RS485; CAN			
Monitoring mode	Wi-Fi+APP			
Weight (kg)	37.5			
Size (W x H x D mm)	702×422×281 (Excluding Connectors and Brackets)			
Ingress Protection	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years (10 Years Optional)			

Lithium Iron Phosphate (LiFePO₄) Battery

STORE YOUR ENERGY



Wall-Mounted Home Energy Storage Battery System

- High density and 6000 cycles.
- Compatible with most of the available hybrid inverters.
- Superior safety: the safest LiFePO₄ battery, no fire and no explosions.
- Easy Installation, maintenance free, easy replacement.
- Build-in BMS, multifunctional security protection.
- Acceptable customization.



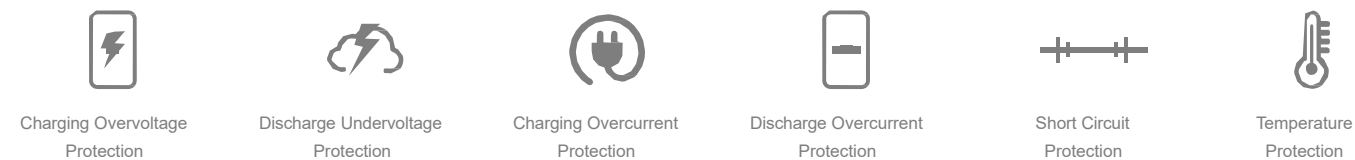
Popular Model

51.2V-200AH

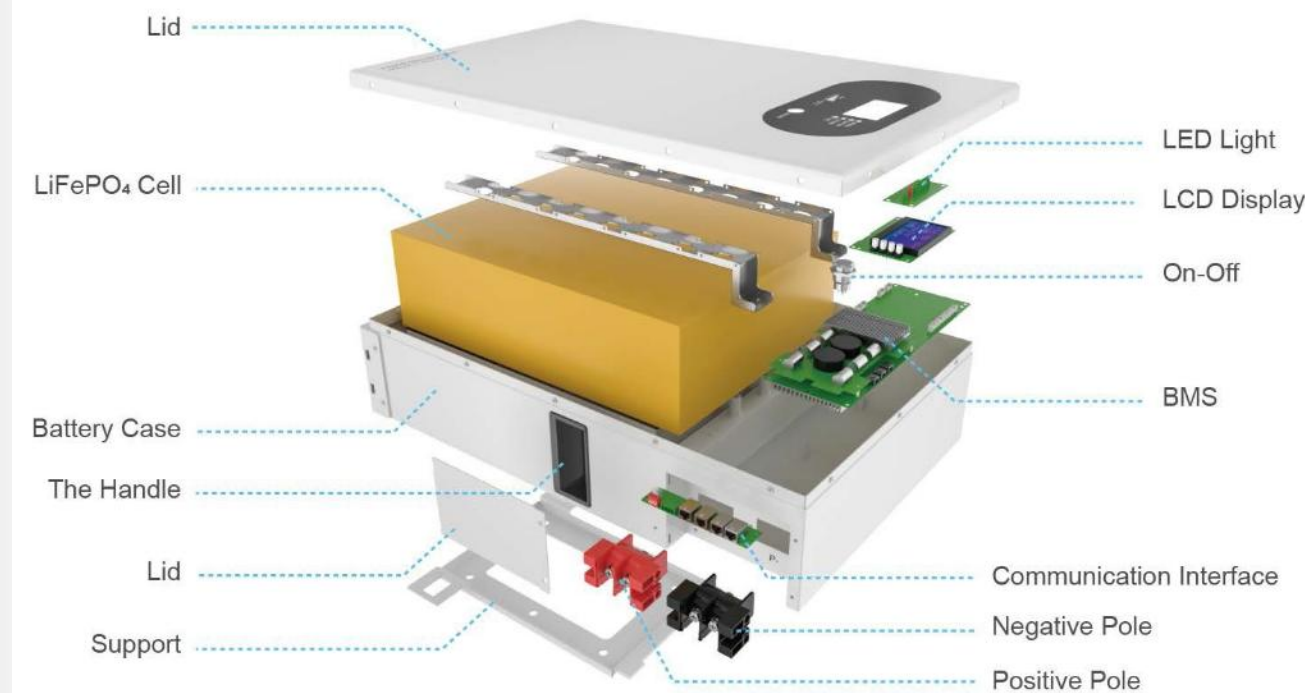
- ▶ Model: LFP51.2-200
- ▶ Nominal Voltage: 51.2V
- ▶ Rated Capacity: 200Ah/10240Wh
- ▶ Communication Interface: CAN/RS485/RS232
- ▶ Operating Voltage Range: 40V~58.4V
- ▶ Max. Continuous Discharge Current: 200A
- ▶ Max. Continuous Charging Current: 120A
- ▶ Outline Dimensions: 440*140*820mm



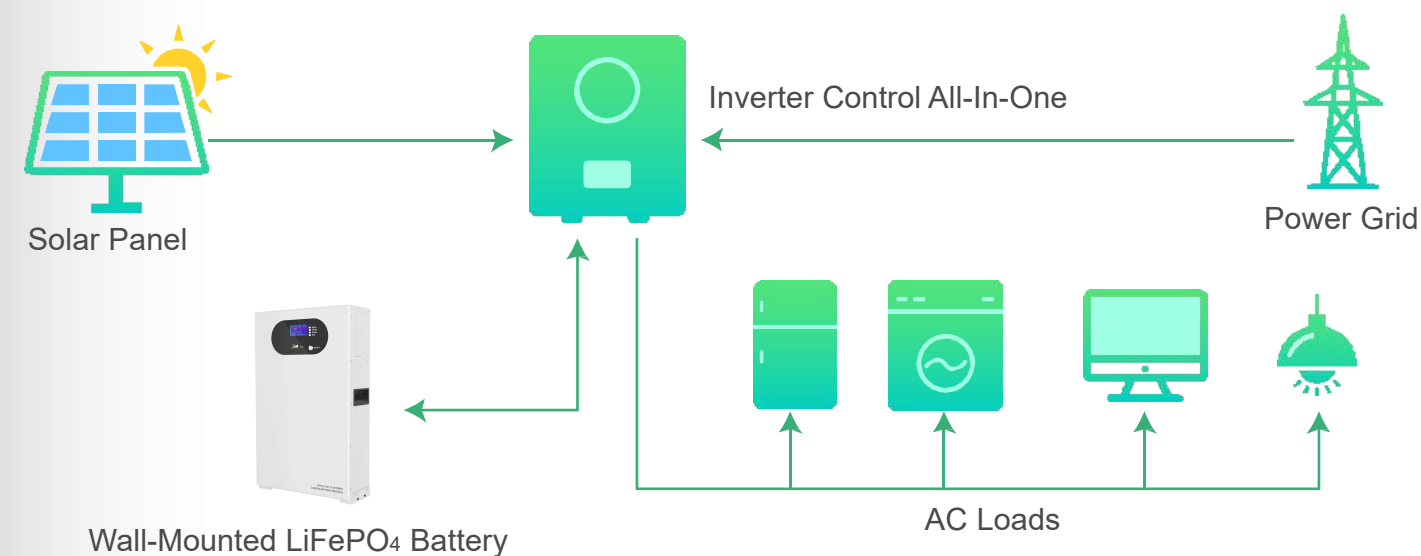
BMS Security Protection



Wall-Mounted LiFePO₄ Battery Structural Diagram



Wall-Mounted Home Energy Storage Battery System



Model	LFP25.6-100	LFP25.6-184	LFP25.6-200	LFP48-100	LFP48-184	LFP48-200	LFP51.2-100	LFP51.2-184	LFP51.2-200
Rated Voltage	25.6V				48V			51.2V	
Rated Capacity	100Ah	184Ah	200Ah	100Ah	184Ah	200Ah	100Ah	184Ah	200Ah
Cell Type					LiFePO4 Battery				
Cycle Life	≥6000 Cycles, 0.2C, 80%DOD, 25°C								
Dimension(mm)	750*145*250	750*150*300		425*145*660	440*140*820		380*145*660	440*140*820	
Operating Voltage Range	20V-29.2V			37.5V-54.75V			40V-58.4V		
Rated Output Power	1.28KW	2.35KW	2.56KW	2.4KW	4.41KW	4.8KW	2.56KW	4.71KW	5.12KW
Max. Peak Output Powe	2.56KW	4.71KW	5.12KW	4.8KW	8.83KW	9.6KW	5.12KW	9.42KW	10.24KW
Max. Continuous Discharge Current	100A	184A	200A	100A	184A	200A	100A	184A	200A
Max. Continuous Charging Current	60A	110A	120A	60A	110A	120A	60A	110A	120A
Operating Ambient Temperature				Charge: 0~55°C Discharge: -10~60°C					
Optimum Storage Temperature	0°C~35°C								
Communication Interface	RS485/CAN/RS232 (Bluetooth and wifi can be configured)								
Protection	Built-in BMS（Over charge protection, over discharge protection, over current protection etc.）								

Contents are subject to change without prior notice.

Floor-mounted LiFePO4battery module

- Superior safety and reliability.
- Higher power: two times power of lead acid battery,even high discharge rate, while maintaining high energy capacity.
- Compatible with most of the available hybrid inverters.
- Bluetooth and wifi can be configured.
- Build-in BMS, multifunctional security protection.
- Wider temperature range: -20℃~60℃.



Model	LFP25.6-300	LFP48-300	LFP51.2-300
Rated Voltage	25.6V	48V	51.2V
Rated Capacity	300Ah	300Ah	300Ah
Product Size (L*W*H)	260*480*495(mm)	360*460*650(mm)	360*460*650(mm)
Cycle Life	≥6000 Cycles, 0.2C, 80%DOD, 25℃		
Operating Voltage	20V-29.2V	37.5V-54.7V	40V-58.4V
Charge Cut-Off Voltage	29.2V	54.7V	58.4V
Rated Output Power	3.84Kw	7.20Kw	7.68Kw
Peak Output Powe	4.608Kw	8.64Kw	9.215Kw
Max.Discharge Current	180A		
Max.Charge Current	150A		
Communication Interface	RS485/RS232/CAN (Bluetooth and wifi can be configured)		
Working Temperature	Charge: 0~55℃ Discharge: -20~60℃		
Optimum Storage Temperature	0℃~35℃		
Storage Humidity	60±25% Relative Humidity		
Installation	Ground Installation		
IP Grade	IP21		

Contents are subject to change without prior notice.

Rack Mounted LiFePO4 Battery Module

- High density and 6000 cycles.
- Compatible with most of the available hybrid inverters.
- Multiple parallel connections can be used to meet capacity requirements.
- Superior Safety: the safest LiFePO4 battery, no fire and no explosions.
- Build-in BMS, multifunctional security protection.
- Customizable, bluetooth, LCD screen can be configured.



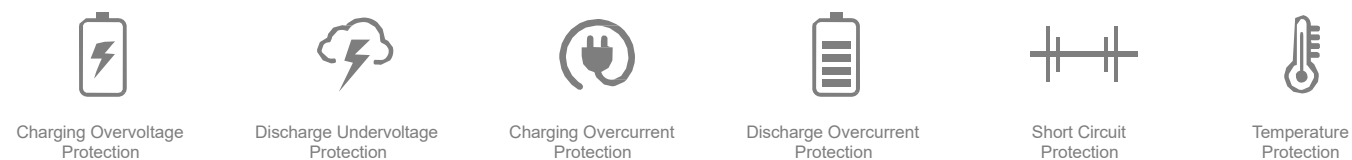
Popular Model

51.2V-200AH

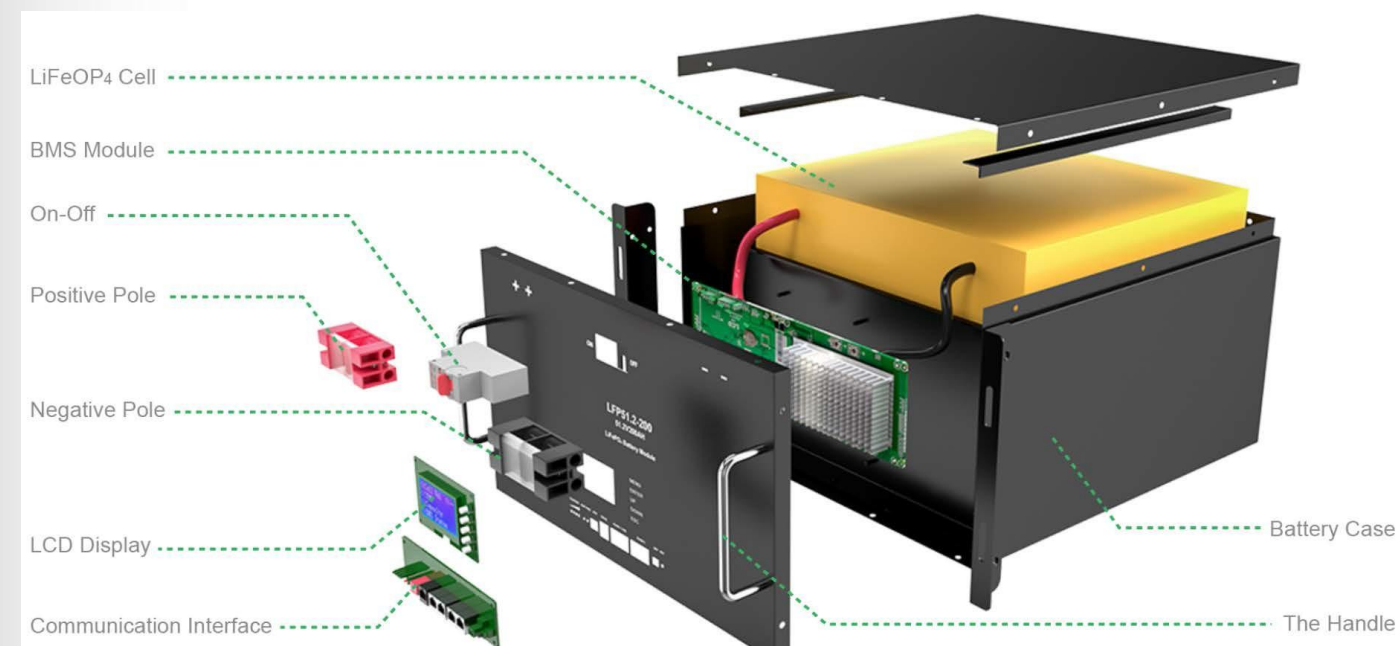
- ▶ Model: LFP51.2-200
- ▶ Nominal Voltage: 51.2V
- ▶ Rated Capacity: 200Ah/10240Wh
- ▶ Communication Interface: CAN/RS485/RS232
- ▶ Operating Voltage Range: 40V~58.4V
- ▶ Max. Charge Current: 100A
- ▶ Continuous Discharge Current: 200A
- ▶ Outline Dimensions: 482*500*280mm



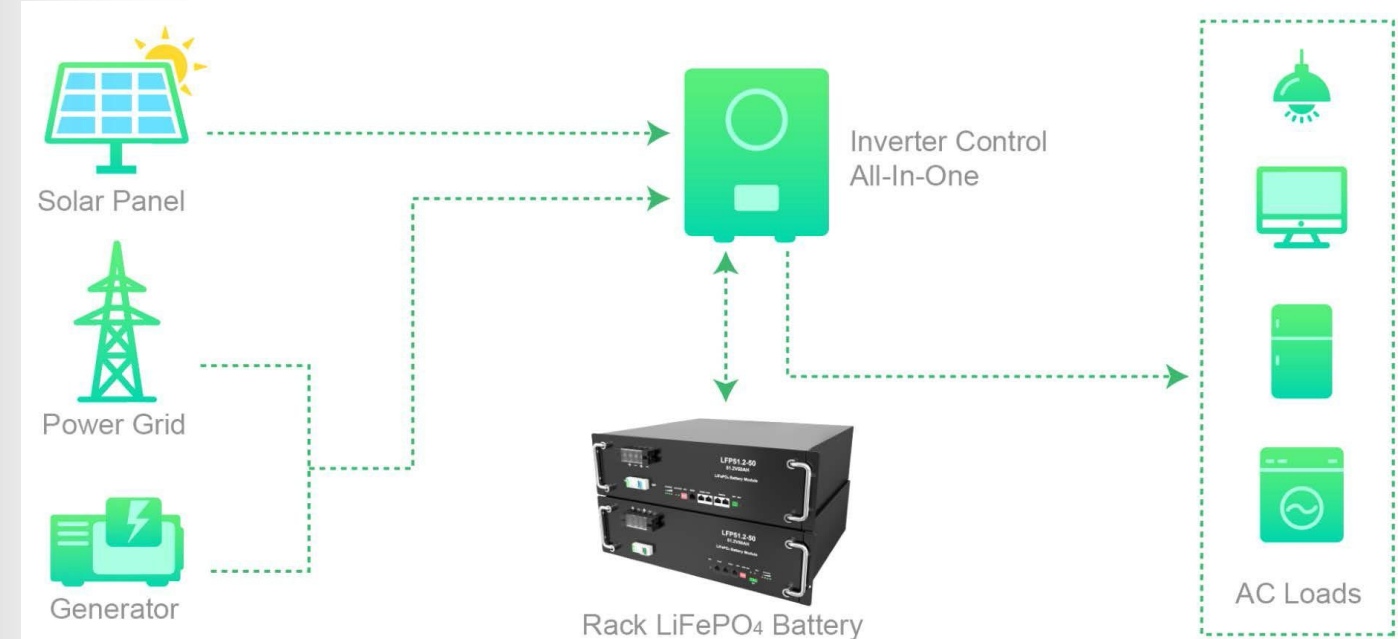
BMS Security Protection



Rack Mounted LiFePO4 Battery Structural Diagram



Rack Mounted Solar Cell System



Model	Rated Voltage	Rated Capacity	Weight (kg)	Dimension(mm)	Operating Voltage Range	Charge Current	Max. Charge Current	Continuous Discharge Current	Communication Interface	Protection
LFP25.6-100-2U	25.6V	100Ah		482*410*89	20V-29.2V	20A	50A	100A	RS485/CAN/RS232 Customizable LCD/ Bluetooth	Built-in BMS (Over charge protection, over discharge protection, over current protection etc.)
LFP25.6-100-3U	25.6V	100Ah		482*350*132		20A	50A	100A		
LFP48-50-2U	48V	50Ah		482*410*89	37.5V-54.7V	10A	25A	50A		
LFP48-50-3U	48V	50Ah		482*350*132		10A	25A	50A		
LFP48-100-3U	48V	100Ah		482*420*132		20A	50A	100A		
LFP48-100-5U	48V	100Ah		482*430*222		20A	50A	100A		
LFP48-150-6U	48V	150Ah		482*500*280		30A	75A	150A		
LFP48-200-6U	48V	200Ah		482*500*280		40A	100A	200A		
LFP48-250-6U	48V	250Ah		482*570*280		50A	125A	250A		
LFP48-300-6U	48V	300Ah		482*570*280		60A	150A	300A		
LFP51.2-50-2U	51.2V	50Ah		482*410*89	40V-58.4V	10A	25A	50A		
LFP51.2-50-3U	51.2V	50Ah		482*420*132		10A	25A	50A		
LFP51.2-100-5U	51.2V	100Ah		482*430*222		20A	50A	100A		
LFP51.2-150-6U	51.2V	150Ah		482*500*280		30A	75A	150A		
LFP51.2-200-6U	51.2V	200Ah		482*500*280		40A	100A	200A		
LFP51.2-250-6U	51.2V	250Ah		482*570*280		50A	125A	250A		
LFP51.2-300-6U	51.2V	300Ah		482*570*280		60A	150A	300A		

Contents are subject to change without prior notice.

Rack Mounted LiFePO4 Battery Module

- High density and 6000 cycles.
- Compatible with most of the available hybrid inverters.
- Multiple parallel connections can be used to meet capacity requirements.
- Superior Safety: the safest LiFePO4 battery, no fire and no explosions. Build-in
- BMS, multifunctional security protection.
- Customizable, bluetooth, LCD screen can be configured.



Model	LFP51.2-100-4P+1	LFP51.2-200-4P+1	LFP51.2-200-6P+1
Rated Voltage	51.2V	51.2V	51.2V
Rated Capacity	400Ah	800Ah	1200Ah
Product Size (L*W*H)	482*430*222*1(mm)	482*500*280*1(mm)	482*500*280*1(mm)
External Dimension (L*W*H)	According to custom requirements		
Operating Voltage	40V-58.4V		
Charge Cut-Off Voltage	58.4V	58.4V	58.4V
Charge Current	80A	160A	240A
Max. Charge Current	200A	400A	400A
Continuous Discharge Current	200A	350A	350A
Peak Discharge Current	250A	500A	600A
Communication Interface	RS485/RS232/CAN (Customizable LCD/ Bluetooth)		
Working Temperature	Charge: 0~55℃ Discharge: -20~60℃		
Optimum Storage Temperature	0℃~35℃		
Storage Humidity	60±25% Relative Humidity		
Maximum Paralleling Quantity	4	4	6
Combiner Box	1	1	1

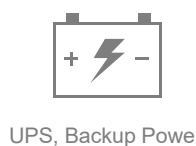
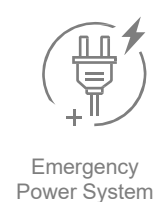
Contents are subject to change without prior notice.

Lithium Iron Phosphate (LiFePO₄) Battery

- High density and 6000 cycles.
- Superior safety: the safest LiFePO₄ battery, no fire and no explosions.
- Higher power: two times power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Build-in BMS, multifunctional security protection.
- Customizable, bluetooth, LCD screen can be configured.
- Wider temperature range: -20°C~60°C.



Application



Popular Model



- ▶ Model: LFP12.8-50
- ▶ Nominal Voltage: 12.8V
- ▶ Rated Capacity: 50Ah/640Wh
- ▶ Operating Voltage Range: 10V~14.6V
- ▶ Continuous Charging Current: 50A
- ▶ Outline Dimensions: 197*165*174mm



- ▶ Model: LFP12.8-100
- ▶ Nominal Voltage: 12.8V
- ▶ Rated Capacity: 100Ah/1280Wh
- ▶ Operating Voltage Range: 10V~14.6V
- ▶ Continuous Charging Current: 100A
- ▶ Outline Dimensions: 260*168*220mm



- ▶ Model: LFP12.8-200
- ▶ Nominal Voltage: 12.8V
- ▶ Rated Capacity: 200Ah/2560Wh
- ▶ Operating Voltage Range: 10V~14.6V
- ▶ Continuous Charging Current: 200A
- ▶ Outline Dimensions: 522*240*218mm

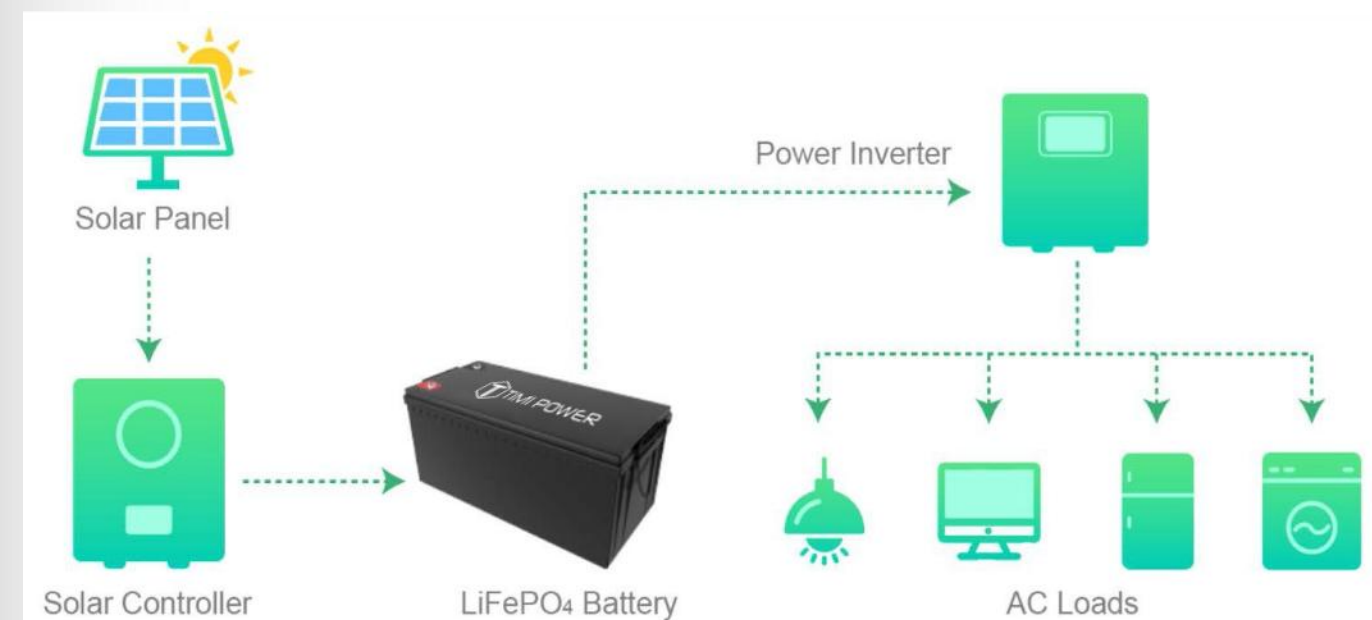


- ▶ Model: LFP25.6-50
- ▶ Nominal Voltage: 25.6V
- ▶ Rated Capacity: 50Ah/1280Wh
- ▶ Operating Voltage Range: 20V~29.2V
- ▶ Continuous Charging Current: 50A
- ▶ Outline Dimensions: 330*173*220mm



- ▶ Model: LFP25.6-200
- ▶ Nominal Voltage: 25.6V
- ▶ Rated Capacity: 200Ah/5120Wh
- ▶ Operating Voltage Range: 20V~29.2V
- ▶ Continuous Charging Current: 200A
- ▶ Outline Dimensions: 522*268*218mm

LiFePO₄ Battery Replacement Lead-Acid Battery Energy Storage System



Model	Rated Voltage	Rated Capacity	Weight (kg)	Dimension(mm)	Operating Voltage Range	Charge Current	Max. Charge Current	Continuous Discharge Current	Other
LFP12.8-6	12.8V	6Ah		151*65*95	10V-14.6V	1.2A	3A	6A	Customizable LCD/ Bluetooth Built-in BMS (Over charge protection, over discharge protection, over current protection etc.)
LFP12.8-12	12.8V	12Ah		151*98*95		2.4A	6A	12A	
LFP12.8-18	12.8V	18Ah		181*77*168		3.6A	9A	18A	
LFP12.8-24	12.8V	24Ah		166*175*125		4.8A	12A	24A	
LFP12.8-50-S	12.8V	50Ah		197*165*174		10A	25A	50A	
LFP12.8-50-L	12.8V	50Ah		230*138*210		10A	25A	50A	
LFP12.8-60	12.8V	60Ah		229*138*205		12A	30A	60A	
LFP12.8-80	12.8V	80Ah		260*168*220		16A	40A	80A	
LFP12.8-100-S	12.8V	100Ah		260*168*220		20A	50A	100A	
LFP12.8-100-L	12.8V	100Ah		330*173*220		20A	50A	100A	
LFP12.8-150	12.8V	150Ah		410*175*225		30A	75A	150A	
LFP12.8-200	12.8V	200Ah		522*240*218		40A	100A	200A	
LFP12.8-250	12.8V	250Ah		522*268*218		50A	125A	250A	
LFP12.8-300	12.8V	300Ah		522*268*218		60A	150A	300A	
LFP12.8-400	12.8V	400Ah		522*268*218		80A	200A	400A	
LFP25.6-50	25.6V	50Ah		330*173*220	20V-29.2V	10A	25A	50A	
LFP25.6-60	25.6V	60Ah		330*173*220		12A	30A	60A	
LFP25.6-100	25.6V	100Ah		522*238*225		20A	50A	100A	
LFP25.6-150	25.6V	150Ah		522*268*218		30A	75A	150A	
LFP25.6-200	25.6V	200Ah		522*268*218		40A	100A	200A	

Contents are subject to change without prior notice.

Factory Production Line

