



BEL SOLAR

BRIZEMONT ENERGY LIMITED



BUSINESS BROCHURE

Lthium Battery

BRIZEMONT ENERGY LIMITED

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Ver: 2024 2.2



Company Profile

Brizmont Energy Limited is a renewable energy company which engages in the production, sales, installation, and after-sale service of renewables and sustainable energy production.

VISION

To be a global industry leader in renewable energy and power, empowering communities and businesses with clean, reliable, and durable power.

MISSION

To provide innovative, sustainable, affordable, reliable, and ever- cleaner energy to Africa and the World at large for a sustainable future through advanced solar technology and energy storage systems.

WHY CHOOSE OUR RENEWABLE ENERGY PRODUCTS?

- Guaranteed uninterrupted Power Supply.
- Independent power supply.
- You completely avoid the rising electricity tariffs.
- Little or no maintenance is required on all our products.
- Our products provide you absolute freedom to disassemble and reinstall in any location of your choosing at little or zero cost.

Complete Manufacturing System





PLASTIC CASE TYPE LIFEPO4 BATTERY

12.8VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ ≥ 6000+ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
- ◆ Grid frequency adjustment energy storage system.
- ◆ New energy communication base station, Core computer room, IDC UPS.
- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

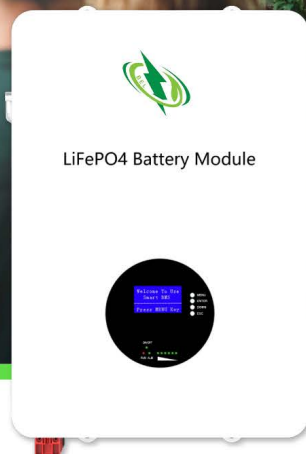
MODEL	GE1207P	GE1209P	GE1212P	GE1215P	GE1220P	GE1230P	GE1240P	GE1260P	GE1280P	GE12100P	GE12120P	GE12150P	GE12200P	GE12280P	GE12300P
Rate voltage(Vdc)	12.8V														
Rate capacity(AH)	7	9	12	15	20	30	40	60	80	100	120	150	200	280	300
Energy storage(WH)	89.6	115.2	153.6	192	256	384	512	768	1024	1280	1536	1920	2560	3584	3840
Cycle life	DOD(≥2000 cycles @85% DOD)									DOD(≥4000 cycles @85% DOD)					
Months self discharge	≤2%														
Efficiency of charge	100% at 0.2C														
Efficiency of discharge	96-99% at 1C														
Standard Charge															
Charge voltage	14.6±0.1V														
Charge mode	0.2C to 14.6V, then 29.2V, Charge current to 0.02C (CC/CV)									0.2C to 14.6V, then 14.6V, Charge current to 0.02C (CC/CV)					
Charge current(A)	1.4	1.8	2.4	3	4	6	8	12	16	20	24	30	40	56	60
Max.Charge current(A)	7	9	12	15	20	30	40	60	80	100	100	100	200	200	200
Charge cut-off voltage(VDC)	14.6														
Standard Discharge															
Continous current(A)	10	10	10	15	20	30	40	60	80	100	100	100	200	200	200
Discharge cut-off voltage(VDC)	11.2														
Environmental															
Charge temperature	0 °C to 45 °C (32° to 113°) @ 60±25% Relative Humidity														
Discharge temperature	-20 °C to 60 °C[-4° to 140°] @ 60±25% Relative Humidity														
Storage temperature	0 °C to 40°C (32° to 104°) @ 60±25% Relative Humidity														
Mechanical															
IP Class	IP60														
Material system	LiFePO4														
Case material	Plastic														
Pack Dimensions L*W*H(mm)	151*63*94	151*63*94	151*99*99	151*99*99	181*77*170	198*166*170	198*166*170	260*168*209	412*326*137	412*326*137	412*326*137	412*451*137	502*471*137	502*471*137	502*471*137
Package Dimension L*W*H(mm)	156*70*99	156*70*99	156*104*104	156*104*104	186*82*175	203*171*175	203*171*175	265*173*214	460*445*230	460*445*230	460*445*230	550*470*230	571*560*230	571*560*230	571*560*230
Net Weight(kg)	1.3	1.4	1.9	2.2	3	4.3	5.9	11.5	19	21	21	28.5	37	51.8	55.5
Gross Weight(kg)	1.5	1.6	2.2	2.5	3.5	4.8	6.4	12	21	23	23	30.5	39	54.6	58.5
Protocol(Optional)	Bluetooth									CANBus / RS485 / RS232					
SOC(Optional)	LED/LCD														
The quality assurance period	60 months														

Product specifications are subject to change without prior notice.



WALL MOUNT TYPE LIFEPO4 BATTERY

25.6VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
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- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE24100LW		GE24180LW	GE24200LW	GE24280LW	GE24300LW
Rate voltage(Vdc)	25.6		25.6	25.6	25.6	25.6
Rate capacity(AH)	100		180	200	280	300
Energy storage(KWH)	2.56		4.608	5.12	7.168	7.68
Cycle life	≥6000 cycles to 85% DOD					
Months self discharge	≤2%					
Efficiency of charge	100% at 0.2C					
Efficiency of discharge	96-99% at 1C					
Standard Charge						
Charge voltage	29.2±0.2V					
Charge mode	0.2C to 29.2V, then 29.2V,charge current to 0.02C (CC/CV)					
Charge current(A)	20	36	40	56	60	
Max. Charge current(A)	100	180	200	200	200	
Charge cut-off voltage(VDC)	29.2±0.2V					
Standard Discharge						
Continuous current (A)	100	180	200	200	200	
Discharge cut-off voltage(VDC)	22.4					
Environmental						
Charge temperature	0℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity					
Discharge temperature	-20 ℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity					
Storage temperature	0℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity					
Mechanical						
IP Class	IP60					
Material system	LiFePO4					
Case material	Metal					
Case Type	Wall Mount					
Pack Dimensions L*W*H(mm)	490*350*147	580*400*185	580*400*185	530*322*270	530*322*270	
Package Dimension L*W*H(mm)	575*490*255	640*485*250	640*485*250	678*435*455	678*435*455	
Net Weight(kg)	29	36	40	53	55	
Gross Weight(kg)	33	38.5	46	58	60	
Terminal	M8					
Protocol (Optional)	CANBus/RS485/RS232					
SOC (Optional)	LED/LCD					
The quality assurance period	60 Months					

Product specifications are subject to change without prior notice.



WALL MOUNT TYPE LIFEPO4 BATTERY

25.6VDC SERIES



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- ◆ Peak load shifting energy storage system.

Technical Data

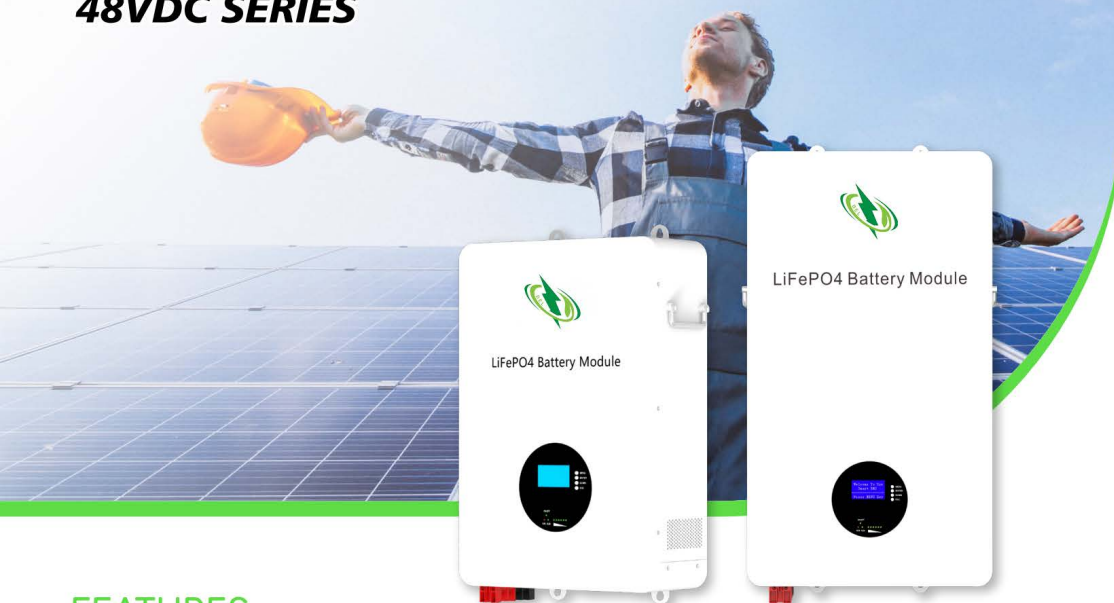
MODEL	GE24100LR	GE24180LR	GE24200LR	GE24280LR	GE24300LR
Rate voltage(Vdc)	25.6	25.6	25.6	25.6	25.6
Rate capacity(AH)	100	180	200	280	300
Energy storage(KWH)	2.56	4.608	5.12	7.168	7.68
Cycle life	≥6000 cycles to 85% DOD				
Months self discharge	≤2%				
Efficiency of charge	100% at 0.2C				
Efficiency of discharge	96-99% at 1C				
Standard Charge					
Charge voltage	29.2±0.2V				
Charge mode	0.2C to 29.2V, then 29.2V, charge current to 0.02C (CC/CV)				
Charge current(A)	20	36	40	56	60
Max. Charge current(A)	100	180	200	200	200
Charge cut-off voltage(VDC)	29.2±0.2V				
Standard Discharge					
Continuous current (A)	100	180	200	200	200
Discharge cut-off voltage(VDC)	22.4				
Environmental					
Charge temperature	0℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity				
Discharge temperature	-20 ℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity				
Storage temperature	0℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity				
Mechanical					
IP Class	IP60				
Material system	LiFePO4				
Case material	Metal				
Case Type	Rack Mount				
Pack Dimensions L*W*H(mm)	388*482*150	388*482*180	575*482*180	575*482*180	575*482*180
Package Dimension L*W*H(mm)	575*490*255	575*490*255	640*490*255	640*490*255	640*490*255
Net Weight(kg)	24	43.2	48	67.2	72
Gross Weight(kg)	27	48.6	54	75.6	81
Terminal	M8				
Protocol (Optional)	CANBus/RS485/RS232				
SOC (Optional)	LED/LCD				
The quality assurance period	60 Months				

Product specifications are subject to change without prior notice.



WALL MOUNT TYPE LIFEPO4 BATTERY

48VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
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- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE4850LW	GE4880LW	GE48100LW	GE48120LW	GE48150LW	GE48200LW
Rate voltage(Vdc)	48	48	48	48	48	48
Rate capacity(AH)	50	80	100	120	150	200
Energy storage(KWH)	2.4	3.84	4.8	5.76	7.2	9.6
Cycle life	≥6000 cycles to 85% DOD					
Months self discharge	≤2%					
Efficiency of charge	100% at 0.2C					
Efficiency of discharge	96-99% at 1C					
Standard Charge						
Charge voltage	54.75					
Charge mode	0.2C to 54.8V, then 54.8V,charge current to 0.02C (CC/CV)					
Charge current(A)	10	16	20	24	30	40
Max. Charge current(A)	50	80	100	120	120	200
Charge cut-off voltage(VDC)	54.8					
Standard Discharge						
Contiuous current(A)	50	80	100	120	120	200
Discharge cut-off voltage(VDC)	42					
Environmental						
Charge temperature	0℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity					
Discharge temperature	-20 ℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity					
Storage temperature	0℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity					
Mechanical						
IP Class	IP60					
Material system	LiFePO4					
Case material	Metal					
Case Type	Rack / Wall Mount					
Pack Dimensions L*W*H(mm)	525*390*150	525*390*150	471*375*147	471*375*147	680*545*155	590*375*245
Package Dimension L*W*H(mm)	610*485*250	610*485* 250	575*490*255	575*490*255	760*625*240	685*470*350
Net Weight(kg)	37.7	38.5	39.2	54.2	66	78.8
Gross Weight(kg)	39.7	40.8	42.6	56.2	62	81.5
Teminal	M8					
Protocol (Optnal)	CANBus/RS485/RS232					
SOC (Optional)	LED/LCD					
The quality assurance period	60 Months					

Product specifications are subject to change without prior notice.



RACK MOUNT TYPE LiFePO4 BATTERY

48VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ ≥ 6000+ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
- ◆ Grid frequency adjustment energy storage system.
- ◆ New energy communication base station, Core computer room, IDC UPS.
- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE4850LR	GE4880LR	GE48100LR	GE48120LR	GE48150LR	GE48200LR
Rate voltage(Vdc)	48	48	48	48	48	48
Rate capacity(AH)	50	80	100	120	150	200
Energy storage(KWH)	2.4	3.84	4.8	5.76	7.2	9.6
Cycle life	≥6000 cycles to 85% DOD					
Months self discharge	≤2%					
Efficiency of charge	100% at 0.2C					
Efficiency of discharge	96-99% at 1C					
Standard Charge						
Charge voltage	54.75					
Charge mode	0.2C to 54.8V, then 54.8V,charge current to 0.02C (CC/CV)					
Charge current(A)	10	16	20	24	30	40
Max. Charge current(A)	50	80	100	120	120	200
Charge cut-off voltage(VDC)	54.8					
Standard Discharge						
Continuous current(A)	50	80	100	120	120	200
Discharge cut-off voltage(VDC)	42					
Environmental						
Charge temperature	0°C to 45 °C (32F to 113F) @60±25% Relative Humidity					
Discharge temperature	-20 °C to 60°C (-4F to 140F) @60±25% Relative Humidity					
Storage temperature	0°C to 40 °C (32F to 104F) @60±25% Relative Humidity					
Mechanical						
IP Class	IP60					
Material system	LiFePO4					
Case material	Metal					
Case Type	Rack / Wall Mount					
Pack Dimensions L*W*H(mm)	451*450(492)*177	465*440(482)*191	490*440(482)*177	470*390*155	500*440(482)*260	590*375*245
Package Dimension L*W*H(mm)	545*525*255	560*515* 265	585*515*345	610*490*255	575*515*335	680*470*350
Net Weight(kg)	37.2	39.9	41.6	45	76.2	78.8
Gross Weight(kg)	40.4	41.1	45.4	48.8	79.6	81.5
Terminal	M8					
Protocol (Optional)	CANBus/RS485/RS232					
SOC (Optional)	LED/LCD					
The quality assurance period	60 Months					

Product specifications are subject to change without prior notice.



WALL MOUNT TYPE LIFEPO4 BATTERY

51.2VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
- ◆ Grid frequency adjustment energy storage system.
- ◆ New energy communication base station, Core computer room, IDC UPS.
- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE5150LW	GE5180LW	GE51100LW	GE51120LW	GE51150LW	GE51200LW
Rate voltage(Vdc)	51.2	51.2	51.2	51.2	51.2	51.2
Rate capacity(AH)	50	80	100	120	150	200
Energy storage(KWH)	2.56	4.096	5.12	6.144	7.68	10.24
Cycle life	≥6000 cycles to 85% DOD					
Months self discharge	≤2%					
Efficiency of charge	100% at 0.2C					
Efficiency of discharge	96-99% at 1C					
Standard Charge						
Charge voltage	58.4					
Charge mode	0.2C to 58.4V, then 58.4V,charge current to 0.02C (CC/CV)					
Charge current(A)	10	16	20	24	30	40
Max. Charge current(A)	50	80	100	120	120	200
Charge cut-off voltage(VDC)	58.4					
Standard Discharge						
Contiuous current(A)	50	80	100	120	120	200
Discharge cut-off voltage(VDC)	44.8					
Environmental						
Charge temperature	0℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity					
Discharge temperature	-20 ℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity					
Storage temperature	0℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity					
Mechanical						
IP Class	IP60					
Material system	LiFePO4					
Case material	Metal					
Case Type	Rack / Wall Mount					
Pack Dimensions L*W*H(mm)	525*390*150	540*220*185	525*485*170	470*390*150	680*545*150	590*375*245
Package Dimension L*W*H(mm)	610*485*250	690*300*260	600*485*255	575*490*255	760*625*240	685*470*350
Net Weight(kg)	39.5	40	43.4	46	72	82
Gross Weight(kg)	41.5	42.6	45.9	48.5	75	85
Terminal	M8					
Protocol (Optional)	CANBus/RS485/RS232					
SOC (Optional)	LED/LCD					
The quality assurance period	60 Months					

Product specifications are subject to change without prior notice.



RACK MOUNT TYPE LIFEPO4 BATTERY

51.2VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ ≥ 6000+ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
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- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE5150LR	GE5180LR	GE51100LR	GE51120LR	GE51150LR	GE51200LR	GE51280LR
Rate voltage(Vdc)	51.2	51.2	51.2	51.2	51.2	51.2	51.2
Rate capacity(AH)	50	80	100	120	150	200	280
Energy storage(KWH)	2.56	4.096	5.12	6.144	7.68	10.24	14.336
Cycle life	≥6000 cycles to 85% DOD						
Months self discharge	≤2%						
Efficiency of charge	100% at 0.2C						
Efficiency of discharge	96-99% at 1C						
Standard Charge							
Charge voltage	58.4						
Charge mode	0.2C to 58.4V, then 58.4V,charge current to 0.02C (CC/CV)						
Charge current(A)	10	16	20	24	30	40	40
Max. Charge current(A)	50	80	100	120	120	200	200
Charge cut-off voltage(VDC)	58.4						
Standard Discharge							
Continuous current(A)	50	80	100	120	120	200	200
Discharge cut-off voltage(VDC)	44.8						
Environmental							
Charge temperature	0℃ to 45 ℃ (32F to 113F) @60±25% Relative Humidity						
Discharge temperature	-20 ℃ to 60℃ (-4F to 140F) @60±25% Relative Humidity						
Storage temperature	0℃ to 40 ℃ (32F to 104F) @60±25% Relative Humidity						
Mechanical							
IP Class	IP60						
Material system	LiFePO4						
Case material	Metal						
Case Type	Rack / Wall Mount						
Pack Dimensions L*W*H(mm)	451*450(492)*177	465*440(482)*191	490*440(482)*191	490*440(482)*191	490*442(484)*250	490*442*290	490*442*290
Package Dimension L*W*H(mm)	545*525*255	560*515*265	585*515*345	585*515*345	575*515*325	600*600*325	600*600*325
Net Weight(kg)	39.5	40	43.4	46	72	82	114
Gross Weight(kg)	41.5	42.6	45.9	48.5	75	85	117
Terminal	M8						
Protocol (Optional)	CANBus/RS485/RS232						
SOC (Optional)	LED/LCD						
The quality assurance period	60 Months						

Product specifications are subject to change without prior notice.



FLOOR STAND TYPE LIFEPO4 BATTERY

51.2VDC SERIES 280Ah ~ 300Ah



FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

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- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE51280FS	GE51300FS
Batteries materials	Lithium iron phosphate	
Series parallel mode (S series,P parallel)	16S1P	
Rate voltage	51.2V	
Rate capacity	280Ah	300Ah
Dimensions L*W*H(mm)	708*440*243	
Package Dimension L*W*H(mm)	980*580*450	
Net Weight(kg)	115	
Gross Weight(kg)	135	
Color	Optional	
Parallel support	Parallel terminals are supported	
Output port mode	Terminal	
Charging way	CC / CV	
Charging current	0.2C (standard)	
Maximum charging current	Max 0.5C @ 25°C	
Charge cut-off voltage	58.4V	
Discharge way	CC/CP/VP	
Discharge current	1C	
Maximum discharge current	Max 1C @ 25°C	
Discharge cut-off voltage	44.8V	
Communication interface	RS485/RS232/CAN	
Charging operating temperature	Charging:0~+50°C	
Discharge operating temperature	Discharge:-20~+55°C	
The quality assurance period	60 months	
Cycle Life	85% DOD $\geq 8\ 000$ Time	

Product specifications are subject to change without prior notice.



WALL/RACK DUAL USE TYPE LIFEPO4 BATTERY

51.2VDC SERIES 200Ah ~ 300Ah



LiFePO4 Battery Module

FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
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- ◆ No active cooling system is required

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- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

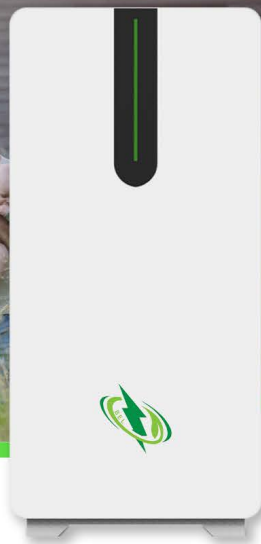
MODEL	GE51200WR	GE51300WR
Batteries materials	Lithium iron phosphate	
Series parallel mode (S series,P parallel)	16S2P	16S2P
Rate voltage	51.2V	51.2V
Rate capacity	200Ah	300Ah
Size (mm)	900*490*200	900*490*200
Weight	90kg	105kg
Color	Optional	
Parallel support	Parallel terminals are supported	
Output port mode	Terminal	
Charging way	CC / CV	
Charging current	0.2C (standard)	
Maximum charging current	Max 0.5C @ 25°C	
Charge cut-off voltage	58.4V	
Discharge way	CC/CP/VP	
Discharge current	1C	
Maximum discharge current	Max 1C @ 25°C	
Discharge cut-off voltage	44.8V	
Communication interface	RS485/RS232/CAN	
Charging operating temperature	Charging:0~+50°C	
Discharge operating temperature	Discharge:-20~+55°C	
The quality assurance period	60 months	

Product specifications are subject to change without prior notice.



WALL/RACK DUAL USE TYPE LIFEPO4 BATTERY

96VDC - 384VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ ≥ 6000+ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
- ◆ Grid frequency adjustment energy storage system.
- ◆ New energy communication base station, Core computer room, IDC UPS.
- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

Model	GE384-27HV
Batteries materials	Lithium iron phosphate
Series parallel mode (S series, P parallel)	120S1P
Nominal voltage	384V (Single module 96V)
Nominal capacity	27Ah
Size(mm)	520×230×1060
Weight	<100kg
Color	Optional
Parallel support	Parallel terminals are supported
Output port mode	Terminal
Charging way	CC/CPVP
Charging current	0.5C(standard)
Maximum charging current	1C @25C
Charge cut-off voltage	438Vdc
Discharge way	CC/CPVP
Discharge current	0.5C(standard)
Maximum discharge current	1C @25C
Discharge cut-off voltage	336Vdc
Indicator	LED
Communication interface	RS485/RS232/CAN
Charging operating temperature	Charging:0~+50°C
Discharge operating temperature	Discharge:-20~+55°C

Product specifications are subject to change without prior notice.



STACKABLE TYPE LIFEPO4 BATTERY

96VDC - 384VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
- ◆ Grid frequency adjustment energy storage system.
- ◆ New energy communication base station, Core computer room, IDC UPS.
- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

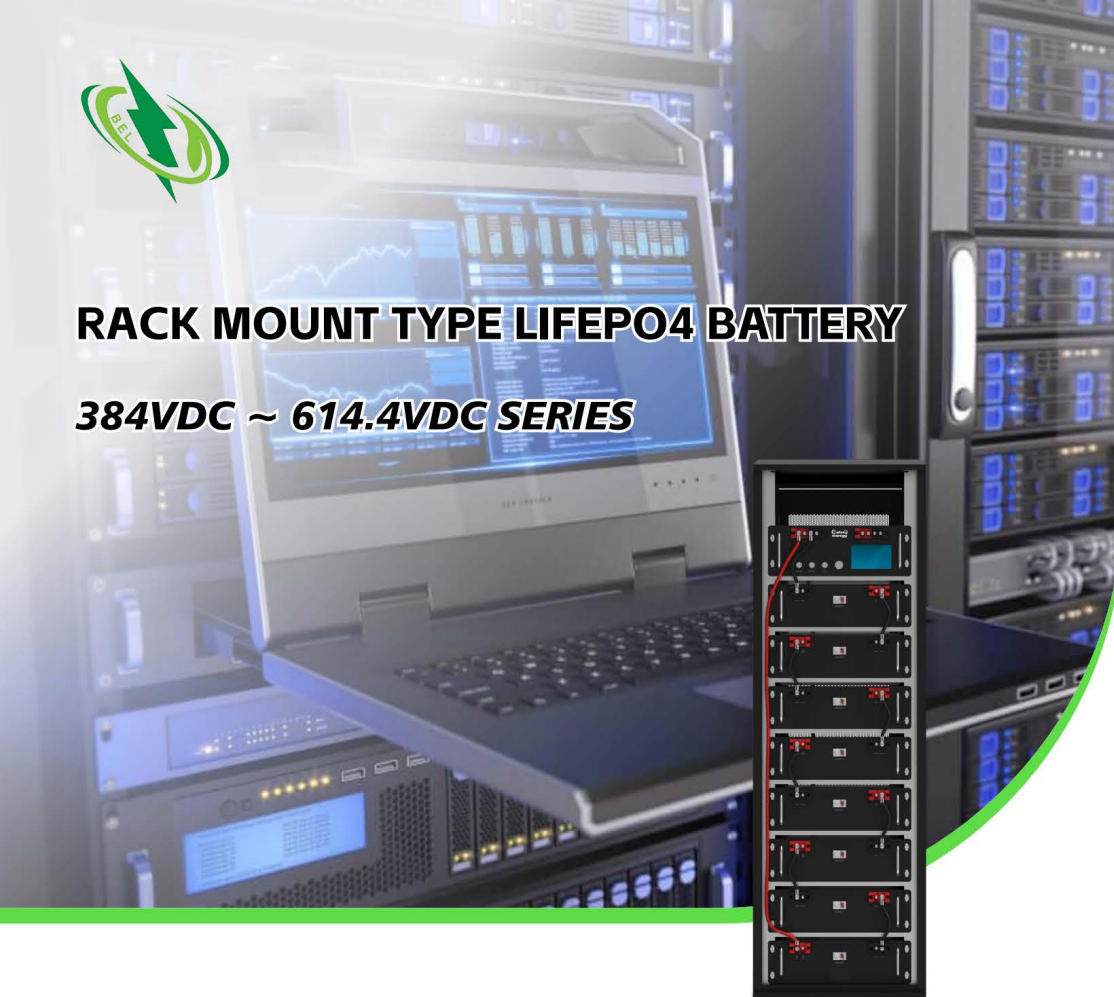
Model	GE384-27HVS
Batteries materials	Lithium iron phosphate
Series parallel mode (S series, P parallel)	120S1P
Nominal voltage	384V (Single module 96V)
Nominal capacity	27Ah
Size(mm)	520×230×1060
Weight	<100kg
Color	Optional
Parallel support	Parallel terminals are supported
Output port mode	Terminal
Charging way	CC/CPVP
Charging current	0.5C(standard)
Maximum charging current	1C @25C
Charge cut-off voltage	438Vdc
Discharge way	CC/CPVP
Discharge current	0.5C(standard)
Maximum discharge current	1C @25C
Discharge cut-off voltage	336Vdc
Indicator	LED
Communication interface	RS485/RS232/CAN
Charging operating temperature	Charging:0~+50°C
Discharge operating temperature	Discharge:-20~+55°C

Product specifications are subject to change without prior notice.



RACK MOUNT TYPE LIFEPO4 BATTERY

384VDC ~ 614.4VDC SERIES



FEATURES

- ◆ Built-in intelligent BMS
- ◆ $\geq 6000+$ cycle life
- ◆ A+ grade brand battery cell
- ◆ Comply with ROHS standards
- ◆ Design life up to 10 years at 25°
- ◆ No active cooling system is required

APPLICATION

- ◆ Oil and electricity hybrid energy storage system.
- ◆ Grid frequency adjustment energy storage system.
- ◆ New energy communication base station, Core computer room, IDC UPS.
- ◆ New energy generation (solar, wind, PV/wind hybrid) access to energy storage system.
- ◆ Smart grid, micro-grid system.
- ◆ Other energy Storage System.
- ◆ Mobile container storage system.
- ◆ Load tracking energy storage system.
- ◆ Peak load shifting energy storage system.

Technical Data

MODEL	GE384100HV	GE410100HV	GE512100HV	GE614100HV
Rate Voltage(Vdc)	384	409.6	512	614.4
Rate Capacity(AH)	100	100	100	100
Energy Storage(KWH)	38.4	40.96	51.2	61.44
Cycle Life	≥4000 cycles to 85% DOD			
Months Self Discharge	≤2%			
Efficiency Of Charge	100% at 0.2C			
Efficiency Of Discharge	96-99% at 1C			
Standard Charge				
Charge Voltage(Vdc)	432	460.8	576	691.2
Charge Mode(Per cell)	CC/CV			
Recommend Charge current(A)	30	30	30	30
Max. Charge current(A)	100	100	100	100
Charge cut-off voltage(VDC)	432	460.8	576	691.2
Standard Discharge				
Contiuous current(A)	100	100	100	100
Discharge cut-off voltage(VDC)	336	358.4	448	548.8
Environmental				
Charge temperature	0 °C to 45°C (32F to 113F) @60±25% Relative Humidity			
Discharge temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity			
Storage temperature	0°C to 40 °C (32F to 104F) @60±25% Relative Humidity			
IP Class	IP60			
Mechanical				
Material system	LiFePO4			
Case material	Metal			
Case type	Rack Mount			
Pack Dimensions L*W*H(mm)	600*650*1880	600*650*1880	600*650*2100	2*(600*650*1880)
Package Dimensions L*W*H(mm)	620*670*2000	620*670*2000	620*670*2120	2*(620*670*2000)
Net Weight(kg)	536	576	626	892
Gross Weight(kg)	597	637	697	994
Terminal	M8			
Protol(Optional)	CANBus/RS485/RS232			
SOC (Optional)	LED/LCD			
The quality assurance period	60 months			

Product specifications are subject to change without prior notice.