



LiFePO4 Battery

COMPANY ZHEJIANG ELECTRIC APPLIANCES CO.,LTD



JUST ENERGY SDN. BHD.

201601028412 (1199351-P)

ZHEJIANG JUST ELECTRICAL APPLIANCES CO.,LTD

History

- 1979 || Hangzhou West Lake Battery Plant was founded.
- 2003 || The Lanxi First Manufacturing Base started to production and our company changed the name to "JUST".
- 2005 || JUST International Sales Department was established.
- 2009 || The Lanxi Second Manufacturing Base started to produce,the annual productivity reached to 4 million pieces. In the same year, our company passed the TS16949 Certification.
- 2010 || Ghana Oversea Department was established in Africa.
- 2011 || The company was honored with "Green Enterprise".
- 2013 || The company was honored with "Cooperative Laboratory Unit" by Bureau Veritas.
- 2014 || JUST Auto-Accessory Business Department was established.
- 2020 || JUST Cross-Border E-commerce Department was established.
- 2021 || JUST Malaysia Manufacturing Base started to produce.The annual production capacity has increased by 5 million pieces.

Certificate



CE



ROHS VERIFICATION
OF CONFORMITY



GB/T 24001-2016
ISO 14001:2015



ISO 9001 : 2015



IATF 16949 : 2016

Rack-mounted Battery



Battery is safe and reliable

High-quality lithium batteries, intelligent battery management system, long lifespan, with a 5-year warranty.



Enjoy enduring power Long endurance time

stable power supply / Reduce frequent charging, Cost-effective / Quick installation, plug and play



Vertical layout design

Rack-mounted installation, space-saving, d f i t l l t i d i t an easy or ns a a on an ma n enhance.

Technical specifications

Model	48V100AH	48V200AH	51.2V100AH	51.2V200AH	51.2V300AH
Battery					
Cell Chemistry	LFP				
Cell Configuration	15S1P		16S1P		
Nominal Energy (Wh)	4800	9600	5120	10240	15360
Nominal Capacity(Ah)	100	200	100	200	300
Nominal Votage (V)	48		51.2		
Working Voltage Range(VDC)	40.5~54		43.2~57.6		
Max.Charge/Discharge Current (A)	100	200	100	200	200
BMS Communication	CAN2.0/RS485/RS232				
General Information					
Dimension[L*W*H](mm)	442*488*155	483*613*240	442*488*155	483*613*240	483*750*250
Packing Dimension [L*W*H](mm)	555*515*340	555*540*500	555*515*340	555*540*500	555*750*510
Weight(kg)	44	84	44	84	115
Packing Weight (kg)	60	100	60	100	130
Quantity of series ¶llel connectable units	16				
Permissible Altitude(m)	<4000m(>2000m derating)				
Dispaly Screen	LCD				
IP Rating	IP21				
Working Temperature (C)	-20~60				
Relative Humidity	0~95%,no condensation				
Cycle Life	6000 cycles				
Warranty	5 years				
nstallation Type	Rack mounted				
Certification	IEC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3				

Wall-mounted battery



Battery is safe and reliable

High-quality lithium batteries, intelligent battery management system, long lifespan, with a 5-year warranty.



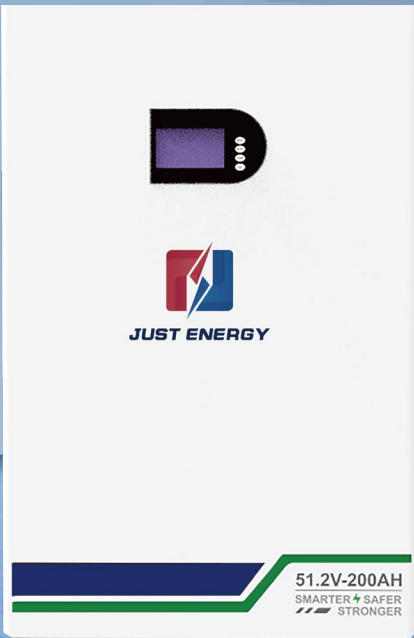
Easy to install and maintain

The wall-mounted design saves space, is easy to install, and facilitates routine maintenance.



Intelligent control

Supports remote monitoring and control, allowing users to check the battery status in real time via smartphones or computers.



Technical specifications

Model	25.6V100AH	25.6V200AH	51.2V100AH	51.2V200AH
Battery				
Cell Chemistry	LFP			
Cell Configuration	8S1P		16S1P	
Nominal Energy(Wh)	2560	5120	5120	10240
Nominal Capacity(Ah)	100	200	100	200
Nominal Votage(V)	26		51.2V100AH	
Working Voltage Range (VDO)	21.6~28.8		43.2~57.6	
Max.Charge/ Discharge Current(A)	100			200
BMS Communication	CAN2.0/RS485/RS232			
General Information				
Dimension[L*W*H](mm	360*336*181	450*181*450		450*181*786
Packing Dimension L*W*H](mm)	385*410*245	530*535*395		890*570*425
Weight(kg)	26	46		82
Packing Weight(kg)	28	60		96
Permissible Altitude(m)	<4000m(>2000m derating)			
Dispaly Screen	LCD			
IP Rating	IP21			
Working Temperature (C)	-20~60			
Relative Humidity	0~95%,no condensation			
Cycle Life	6000 cycles			
Waranty	5 years			
nstallation Type	Wall-mounted			
Certification	IEC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3			

Large Capacity Battery with Roller



Battery is safe and reliable

High-quality lithium batteries, intelligent battery management system, long lifespan, with a 5-year warranty.



Enjoy enduring power Long endurance time

stable power supply / Reduce frequent charging, Cost-effective / Quick installation, plug and play



Strong environmental adaptability

Operating temperature range from -20 to 60°C, stable and reliable.



Technical specifications

Model	51.2V200AH	51.2V300AH	51.2V330AH	51.2V400AH	51.2V560AH
Battery					
Cell Chemistry	LFP				
Cell Configuration	16S1P				
Nominal Energy(Wh)	10240	15360	16896	20480	28672
Nominal Capacity(Ah)	200	300	330	400	560
Nominal Votage(V)	51.2				
Working Voltage Range (VDO)	43.2~57.6				
Max.Charge/Discharge Current(A)	200				
BMS Communication	CAN2.0/RS485/RS232				
General Information					
Dimension[L*W*H](mm)	450*181*886	500*270*794	550*394*835	600*360*905	900*320*700
Packing Dimension L*W*H](mm)	990*570*425	855*560*550	570*370*940	620*380*1025	920*340*820
Weight(kg)	84	117	120	160	200
Packing Weight(kg)	100	132	135	185	215
Permissible Altitude(m)	<4000m(>2000m derating)				
Dispaly Screen	LCD				
IP Rating	IP21				
Working Temperature (C)	-20~60				
Relative Humidity	0~95%,no condensation				
Cycle Life	6000 cycles				
Waranty	5 years				
nstallation Type	Floor-Mounted				
Certification	IEC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3				

All-in-one_ Wall-mounted



All in one design

The inverter and battery are integrated into a single unit, simplifying the installation process and saving space.



High-efficiency energy conversion

High inverter efficiency reduces energy loss, providing more available electricity.



Strong environmental adaptability

Suitable for outdoor installation, capable of adapting to various environmental conditions.



Technical specifications

Model	5KW-5kWh	combination method	16S1P
Inverting characteristic		cycle life	≥4000cycles@80% DOD@35°C
Power rating	5000W	Monthly self-discharge	3%/month
Instantaneous power	10000W	Charging efficiency	≥97%
Wave form	Pure sine wave	Discharging efficiency	≥98%
AC Voltage(battery mode)	(220vac~240vac)±5% 230vac(default)	Recommended charging voltage	57.6V
Inverter efficiency(peak)	93%	Recommended charging current	20A
Conversion time	10ms(UPS);20ms(APL)	Maximum charging voltage	58.4V
NO-load power consumption	<40W@48VDC>	Maximum charging current	100A
Voltage	230VAC	Recommend discharge current	50A
Selectable voltage range	170~280VAC(UPS) 90~280VAC(APL)	Maximum discharge current	100A
Frequency range	50Hz/60Hz (Automatic detection)	Discharge termination voltage	43.2V
Solar charger model	MPPT	Battery size(W*D*H)(mm)	744.5*540*160mm
MPPT maximum PV power	6000W	Package size(W*D*H)(mm)	821*610*230mm
MPPT output voltage range	60-450V	N.W(kg)	68Kg±5Kg
Maximum PV open circuit voltage	500V	G.W(kg)	75Kg±5Kg
Maximum solar charging current	80A	Class of protection	IP30
Maximum AC charging current	80A	Shell material	Metal housing
Maximum charging current	80A	Optional features	Anti-theft feature LCD display
Battery pack electrical characteristics		Charging temperature range	0°C~45°C
Rated battery voltage	51.2V	Discharge temperature range	-20°C~60°C
Rated power	5120KWh	Storage temperature	0°C~40°C
Nominal capacity	100Ah	Humidity	5%~95%Relative humidity(no condensation)

Model	11KW+17KWh	Monthly self-discharge	3%/month
Inverting characteristic		Charging efficiency	≥97%
Battery Capacity	17360Wh(330Ah/51.2V)	Discharging efficiency	≥98%
Rated Power	11000W/Peak22000VA	Recommended charging voltage	57.6V
Cell Type	LifePO4	Recommended charging current	40A
AC Input	195-253VA±3V	Maximum charging voltage	58.4V
AC Output	220/230/240VAC+5%	Maximum charging current	300A
Rated Battery Input Voltage	DC48V	Recommend discharge current	100A
PV Input Power	5500W * 2 channels, MAX	Maximum discharge current	300A
MPPT Input Voltage Range	90-500DC	Discharge termination voltage	43.2V
Maximum MPPT Input Voltage	500VDC MAX	Battery size(W*D*H)(mm)	835*550*394mm
AC Input Current	150A MAX	Package size(W*D*H)(mm)	616*461*980mm
DC Output	DC:12V 3A	N.W(kg)	145Kg
USB	5V 2.4A	G.W(kg)	
TYPE-C	5V 2.4A	Class of protection	IP30
Battery pack electrical characteristics		Shell material	Metal housing
Rated battery voltage	51.2V	Optional features	Anti-theft feature LCD display
Rated power	17.36KWh	Charging temperature range	0°C~45°C
Nominal capacity	330Ah	Discharge temperature range	-20°C~60°C
combination method	16S1P	Storage temperature	0°C~40°C
cycle life	6000+cycles@80% DOD@35°C	Humidity	5%~95%Relative humidity(no condensation)

Lead-acid to lithium



Environmental upgrade

Transitioning from lead-acid to lithium batteries reduces environmental impact and enhances energy utilization efficiency.



Increased charging efficiency

Fast charging capabilities shorten waiting times and improve user convenience.



Extended lifespan

Lithium batteries have a longer cycle life, reducing the frequency of replacement and saving costs.



Technical specifications

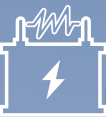
Model	12.8V100	12.8V200	25.6V100	25.6V200
Battery				
CdlChemistry	LFP			
Cell Configuration	4S1P		8S1P	
Nominal Energy (Wh)	1280	2560		5120
Nominal Capaoity (Ah)	100	200	100	200
Nominal Votage (V)	12.8		25.6	
Working Voltage Range (YDQ	10.8-14.4		20.3-29.2	
Ma.Charge Discharge Qument (A	100			
BMS Communikation	CAN2.0/RS485			
General Infomation				
Dimension[L"WH][mm	260*167*210	502*186*243		522*238*218
Pading Dimension L*W"H(mm)	310*220*270	555*235*305		575*295*285
Weight (kg	9.5	18.5		36.5
Padking Weight (kgì	10.5	19.5		37.5
Permissible Altitude(m)	<4000m(>2000m derating)			
Dispaly Screen	LCD			
P Rating	P21			
Working Temperature C)	-20-60			
Relatwe Humidity	0~95%,no condensatlon			
Cycle Life	6000 cydes			
Warranty	3 years			
nstallation Type	Portable			
Certification	EC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3			

Stackable All-in-one_ Portable



Diversified energy storage capacity

From 5120Wh to 20480Wh,
catering to different demand.



High-efficiency energy conversion

Rated input/output apparent power of 5000VA,
with a maximum output current of 21.7A.



Flexible expansion capability

Easily adjust the energy storage capacity
according to changing needs.



Technical specifications

Model	YTJKY51100-5k-W	YTJKY51200-5k-W	YTJKY51300-5k-W	YTJKY51400-5k-W
Battery				
Cell Chemistry	LFP			
Nominal Energy (Wh)	5120	10240	15360	20480
Nominal Capacity (Ah)	100	200	200	200
Nominal Votage (V)	51.2			
Working Voltage Range (VDC)	44.8~58.4			
Max. Charge/Discharge Current (A)	100A			
BMS Communication	CAN2.0/RS485			
PV Input				
Max. PV Input Power (W)	7500			
Max. PV Input Voltage (V)	600			
MPPT Voltage Range (V)	100~550			
Start-up Voltage (V)	125			
Number of MPPTs	2			
Number of PV Strings per MPPT	1/1			
Max. PV Input Current (A)	20			
AC Input and Output (On-grid)				
Nominal Input/Output Apparaent Power (VA)	5000			
Nominal Input/Output Voltage (V)	230			
Nominal Grid Frequency (Hz)	50/60			
Max. Output Current (A)	21.7			
THDi	<3%			
Power Factor	0.8 leading~0.8 lagging			
Switch time (ms)	10			
Grid Connection	Single Phase			
General Information				
Dimension [H*W*D] (mm)	680*400*430	680*400*592	680*400*754	680*400*916
Packing	Pack separately, inverters and bases do not require hazardous packaging; hazardous packaging for batteries, one battery package per cardboard box.			
Weight (kg)	63			
Packing Weight (kg)	75			
Permissible Altitude (m)	4000 (>2000 derating)			
Dispaly Screen	LCD/LED			
IP Rating	IP65			
Working Temperature (°C)	-20~60			
Relative Humidity	0~95%, no condensation			
Cycle Life	6000 cycles			
Warranty	5 years			
Installation Type	Portable			
Certification	IEC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3			

Stackable All-in-one_ Wall-mounted



Diversified energy storage capacity

From 5120Wh to 20480Wh, catering to different demand.



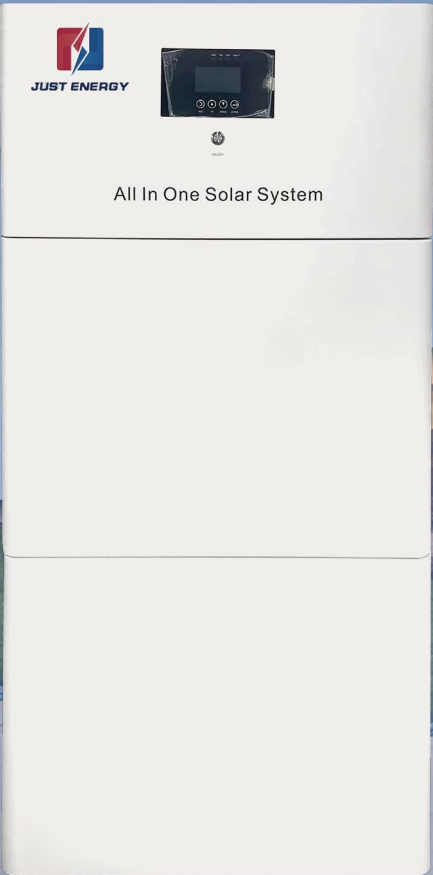
High-efficiency energy conversion

Rated input/output apparent power is 5000VA, with a maximum output current of 21.7A.



Flexible expansion capability

Adjust the energy storage capacity easily according to changing demands.



Technical specifications

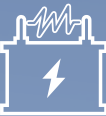
Model	YTJBG51100-5k-W		YTJBG51200-5k-W	YTJBG53100-5k-W
Battery				
Cell Chemistry	LFP			
Nominal Energy (Wh)	5120	10240	15360	20480
Nominal Capacity (Ah)	100	200	300	400
Nominal Votage (V)	51.2			
Working Voltage Range (VDC)	44.8~58.4			
Max. Charge/Discharge Current (A)	100A			
BMS Communication	CAN2.0/RS485			
PV Input				
Max. PV Input Power (W)	7500			
Max. PV Input Voltage (V)	600			
MPPT Voltage Range (V)	100~550			
Start-up Voltage (V)	125			
Number of MPPTs	2			
Number of PV Strings per MPPT	1/1			
Max. PV Input Current (A)	16			
AC Input and Output (On-grid)				
Nominal Input/Output Apparaent Power (VA)	5000			
Nominal Input/Output Voltage (V)	230			
Nominal Grid Frequency (Hz)	50/60			
Max. Output Current (A)	21.7			
THDi	<3%			
Power Factor	0.8 leading~0.8 lagging			
Switch time (ms)	10			
Grid Connection	Single Phase			
General Information				
Dimension [H*W*D] (mm)	650*192*440	650*192*712	650*196*984	650*192*1256
Packing	Pack separately, inverters and bases do not require hazardous packaging; hazardous packaging for batteries, one battery package per cardboard box.			
Weight (kg)	65	110	155	200
Packing Weight (kg)	75	120	165	210
Permissible Altitude (m)	4000 (>2000 derating)			
Dispaly Screen	LCD/LED			
IP Rating	IP65			
Working Temperature (℃)	-20~60			
Relative Humidity	0~95%, no condensation			
Cycle Life	6000 cycles			
Warranty	5 years			
Installation Type				
Certification	IEC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3			

Liquid cooled outdoor cabinet L2



High-efficiency lithium iron phosphate (LFP) battery

280Ah large-capacity cells, with an 8000-cycle long lifespan, ensuring a durable and stable power supply.



Advanced liquid cooling system

Effectively reduces battery temperature, enhancing battery performance and lifespan.



Customizable for multiple scenarios

Optional photovoltaic (PV) DC-DC converters and rapid STS (Static Transfer Switch) for flexible adaptation to various needs.



Technicle Specifications

Model		DZ105233L2
DC Side		
Rated Battery Capacity		233kWh
Rated Battery Voltage		832V
Battery Voltage Range		780V - 936V
Battery Type		LFP
Cell Capacity		280Ah
Cycle Life		8000 cycles (0.5C, 5%~95%DOD, 70%SOH)
Standard Charge/Discharge Current		0.5C
Series-Parallel Connection Method		1P52S (5set)
Module Cooling Method		Liquid-cooling
AC Side		
Rated AC Power		105kW
Maximum Efficiency		98.50%
Rated AC Voltage		230/400V
Grid Voltage Range		320 - 460V
Rated AC Frequency		50/60Hz
Total Harmonic Distortion of Current THDI		< 3% (Rated Power)
Power Factor		-1 Leading - +1 Lagging
Total Harmonic Distortion of Voltage THDI		< 3% (Linear Load)
PCS Cooling Method		Air cooling
System Parameter		
Energy Cycle Efficiency		≥90%
Protection Level		IP54
Corrosion Protection Level		C3 by default, C4/C5 optional
Isolation Method		Non-isolated (Isolation transformer optional)
Relative Humidity		0~95% (No condensation)
Operating Temperature		-30°C~55°C(derating above 45°C)
Cooling Method		Liquid Cooling
Altitude		<4000m (derating over 2000m)
BMS Communication		CAN2.0b
EMS Communication		4G/CAN/RS485
Dimensions (W*D*H)		1692mm*1385mm*2220mm
Weight (Approx.)		3000kg
Annual Degradation Rate		<3%
Warranty		5 years
Photovoltaic DCDC Parameter (Optional)		
Maximum Input Component Power		100kW(50KW*2)
MPPT Voltage Range		200 - 850V
Number of MPPT Tracks		1 - 2 track
STS (Optional)		
Rated Power		200kW (grid side100kW, load side100kW)
Switching Time		≤20ms