

BATTERY ENERGY STORAGE SYSTEM - BESS



Power Your Future : Next - Generation Battery Energy Storage Systems (BESS)



PRODUCT OVERVIEW

Mishay delivers reliable, sustainable, and intelligent energy storage solutions for every scale, from homes to the grid. Future-proof your energy with unparalleled efficiency, resilience, and cost savings.

ENHANCED RESILIENCE

Ensure continuous power during outages and grid instability.

OPTIMIZED COSTS

Reduce peak demand charges and capitalize on energy arbitrage.

GREEN INTEGRATION

Maximize the use of renewable energy by storing excess generation.

RESIDENTIAL ENERGY STORAGE SYSTEM



RESIDENTIAL BESS : THE SMART HOME POWERHOUSE



KEY FEATURES INCLUDE:

- Low-voltage design ideal for compact solar setups
- Cobalt-free LFP chemistry for enhanced safety
- Intelligent Battery Management System (BMS) for protection and cell balancing
- Modular and scalable capacity from 5kWh to 327kWh
- Natural cooling and IP65-rated enclosures for indoor and outdoor installation
- Wide operating temperature range (-20°C to 55°C)
- Over 6000 cycles with a 10-year warranty

PRODUCT OVERVIEW

A residential energy storage system allows solar power to be stored and used whenever needed. Its main components are a hybrid inverter, batteries, and an energy management system. Sungrow’s advanced battery storage solutions help you maximise your solar energy usage and power your home in a sustainable way.

LOW VOLTAGE SERIES (LV)

Mishay Power Infra’s Low Voltage (LV) solar battery series delivers safe and durable lithium iron phosphate (LFP) batteries designed for small solar and off-grid systems. With an operating voltage range of 43V to 57V, these batteries are well-suited for residential energy storage and improving solar self-consumption.

Feature	Technical Snapshot
Backup Power	Capacity: 5 kWh – 20 kWh
Solar Self-Consumption	Chemistry: Safe Lithium-Iron Phosphate (LFP)
Peak Shaving/Time-of-Use	Inverter: Hybrid, Bi-directional
Aesthetics	Enclosure: IP65 Rated, Modular

RESIDENTIAL BESS : THE SMART HOME POWERHOUSE



Residential Energy Storage System High Voltage series (HV)

Mishay Power Infra's LV solar batteries provide reliable and safe energy storage solutions for residential and small commercial renewable energy systems.



High Voltage LFP Battery

10~40kWh
MPH100~400



High Voltage LFP Battery

5.12kWh
MPS050



High Voltage LFP Battery

6.4~25.6kWh
MPR064~256

RESIDENTIAL BESS : THE SMART HOME POWERHOUSE



Residential Energy Storage System



High Voltage LFP Battery

MBH100 ~ 400
5 kWh Per Battery Module
10 ~ 40 kWh Per Battery Unit
50 A Max. Charge / Discharge Current



High Voltage LFP Battery

MBS050
5.12 kWh Per Battery Module
20.48 kWh Max. Energy in Parallel
50 A Max. Charge / Discharge Current

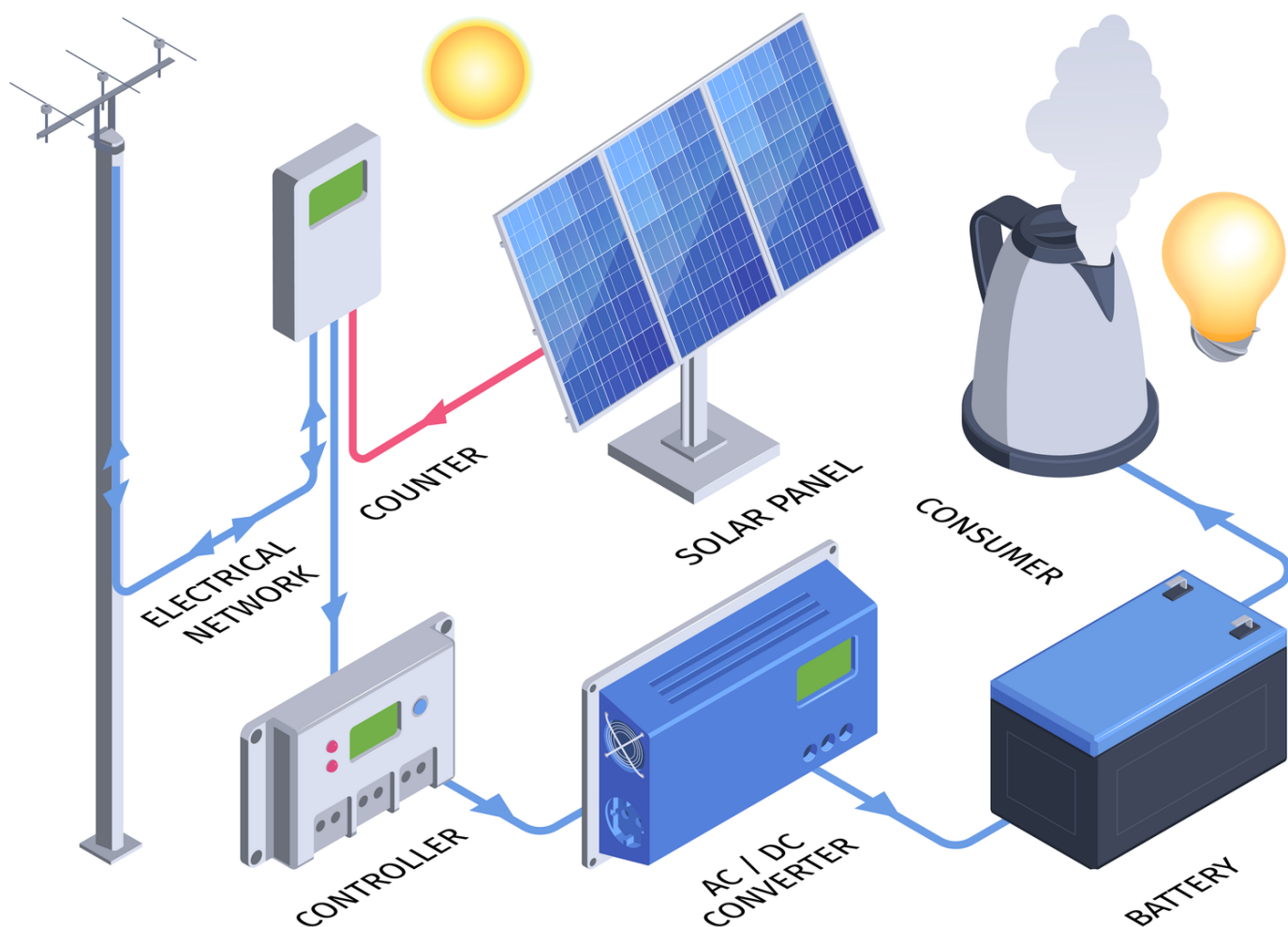


RESIDENTIAL BESS : THE SMART HOME POWERHOUSE



A home hybrid solar plant integrates solar panels, battery storage, and the utility grid to ensure continuous and efficient power supply

HOME HYBRID SOLAR PLANT



Commercial & Industrial (C&I)

C&I Energy Storage System

Advanced liquid-cooled C&I energy storage built to support future expansion.



PowerStack 255CS

125kW/257kWh MP255CS-2H

125 kW Rated AC Output Power

257 kWh Battery Capacity

400 V Rated AC Voltage

90% System RTE



PowerStack 255CS

125kW/514kWh MP510CS-4H

125 kW Rated AC Output Power

514 kWh Battery Capacity

400 V Rated AC Voltage

90% System RTE



PowerStack 200CS

110kW/229kWh MP225CS-2H

110 kW Rated AC Output Power

229 kWh Battery Capacity

400 V Rated AC Voltage

90% System RTE



PowerStack 200CS

110kW/458kWh MP455CS-4H

110 kW Rated AC Output Power

458 kWh Battery Capacity

400 V Rated AC Voltage

90% System RTE

System Overview

A Utility Energy Storage System stores electricity and delivers it when required. It supports power grids, renewable energy plants, and large consumers by improving grid stability, enabling renewable energy integration, and reducing overall energy costs.

Built with Triple-E Technology and an AC Block architecture, Sungrow's PowerTitan series provides a compact footprint, advanced safety, and high discharge performance. The system supports 2- to 8-hour storage needs and is engineered to operate reliably in extreme environments—from -30°C high-altitude cold regions to 50°C desert heat and highly corrosive coastal climates. This ensures stable and dependable energy storage in any setting



PowerTitan 2.0 Liquid-Cooled
Battery Energy Storage
System Container
MP5015UX-8H-US



2.5MW/5MWh Jarvis
2520 kW PCS Power
5015 kWh Battery Capacity
1500 V DC Voltage
-30~50 °C Operating Temperature
Range

WS-L LIQUID-COOLED SERIES BESS SOLUTION

Key Features

- 3+3 fire protection system with five layers of safety for improved protection
- 3+3 electrical safety design with AC leakage and DC insulation monitoring
- High-voltage interlock ensures safe maintenance and isolates faults
- Modular, container-based design for easy installation and expansion
- Flexible energy options with 2-hour and 4-hour configurations
- High energy density, offering multi-MWh capacity in a 20-foot container
- PV DC coupling up to 1440 kW for smooth integration with solar systems
- PCS capacity up to ~1125 kW for high-power applications
- AI-enabled cloud platform for 24/7 remote monitoring and real-time alerts
- Centralized cluster management for improved control and system reliability
- IP55 outdoor protection rating and a 10-year warranty

5015 kWh Nominal Capacity

762 kVA Nominal AC power

-30~50 °C Operation Temperature Range

1500 V DC Voltage

Mi-Power 130Ah Power



MODEL SPECIFICATION	MPI-51.2V130Ah Mi-Power 51.2V 130AH
Battery Type	LiFePO4
Total Energy	6.656 kWh
Voltage window	44.8 ~ 58.4V
Max.continue discharge current	100A
Max.pulse discharge current	150A 1Sec.
Max.continue charge current	65A
Scalable	1~15 in parallel
Communication	CAN,RS485
Cycle life	> 8000 Cycles@(+25°C,0.5C,90%DOD,60%EOL)
Safety standard	UN38.3,MSDS
IP degree	IP20
PROTECTION	
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection
AMBIENT	
working Temperature	-10°C ~ +50°C
Humidity	0~95% (no condensation)
DIMENSION	
L×W×H (products size) mm	1090*685*120mm
L×W×H (package size) mm	1150*720*205mm (UN wooden cases)
Weight(NW Kg)	78.6Kg
Weight(GW Kg)	97.2Kg
20FT QTY(UNIT)	140

Mi-Pack 25.6V / 51.2V Wall Stand Lithium Battery with 6000 Cycles Cells



MODEL	MPI-25.6V200Ah Mi-Pack series	MPI-51.2V200Ah Mi-Pack series	MPI-51.2V300Ah Mi-Pack series
Battery Type	LiFePO4	LiFePO4	LiFePO4
Total Energy	5.120 kWh	10.240 kWh	15.360Wh
Voltage window	22.4 ~ 29.2V	44.8 ~ 58.4V	44.8 ~ 58.4V
Max.continue discharge current	150A	150A	200A
Max.pulse discharge current	200A 1Sec.	200A 1Sec.	300A 1Sec.
Max.continue charge current	100A	100A	150A
Scalable	1~15 in parallel	1~15 in parallel	1~15 in parallel
Communication	RS485	CAN,RS485	CAN,RS485
Cycle life	>6000 Cycles@ (+25°C,0.5C,80%DOD,6 0%EOL)	>6000 Cycles@ (+25°C,0.5C,80%DOD,6 0%EOL)	>8000 Cycles@ (+25°C,0.5C,80%DOD,6 0%EOL)
Terminal	double M8		
Safety standard	UN38.3,MSDS		
IP degree	IP20		
PROTECTION			
Protection	Over charge protection, Over discharge protection, Over current protection Shortcircuit protection, Over temperature protection		
AMBIENT			
Working Temperature	-10°C~ +50°C		
Humidity	0~95% (no condensation)		
DIMENSION			
L×W×H (products size) mm	735*580*190±3mm	1000*730*190±3mm	1010*735*190±3mm
L×W×H (package size) mm	782*620*240±3mm (UN carton)	1060*780*236±3mm (UN wooden cases)	1060*780*236±3mm (UN wooden cases)
Weight(NW Kg)	55.3Kg	103.2Kg	135.4Kg
Weight(GW Kg)	59.4Kg	117.2Kg	148.3Kg
20FT QTY(UNIT)	243PCS	120PCS	120PCS

Mi-Sun Wall Stand Lithium Battery Pack

100Ah-350Ah With 6000+ Cycles



MODEL SPECIFICATION	MPI-25.6V200Ah Mi-Sun series	MPI-25.6V300AH Mi-Sun series	MPI-51.2V100AH Mi-Sun series	MPI-51.2V200AH Mi-Sun series	MPI-51.2V300AH Mi-Sun series	MPI-51.2V350AH Mi-Sun series
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Total Energy	5.120 kWh	7.680 kWh	5.120 kWh	10.240 kWh	15.360 kWh	17.920 kWh
Voltage window	22.4 ~ 29.2V	22.4 ~ 29.2V	44.8 ~ 58.4V	44.8 ~ 58.4V	44.8 ~ 58.4V	44.8 ~ 58.4V
Low DC Cut-off Voltage	23.4V	23.4V	46.8V	46.8V	46.8V	46.8V
Max.continue discharge current	150A	200A	100A	150A	200A	200A
Max.pulse discharge current	200A 1Sec.	300A 1Sec.	150A 1Sec.	200A 1Sec.	300A 1Sec.	300A 1Sec.
Max.continue charge current	100A	150A	50A	100A	150A	150A
Scalable	1~15 in parallel	1~15 in parallel	1~15 in parallel	1~15 in parallel	1~15 in parallel	1~15 in parallel
Communication	RS485	RS485	CAN,RS485	CAN,RS485	CAN,RS485	CAN,RS485
Cycle life	>8000 Cycles for 300Ah >6000 Cycles for 100Ah/200Ah @(+25°C,0.5C,90%DOD,60%EOL)				>8000 Cycles@ (+25°C,0.5C,90%DOD,60%EOL)	
Terminal	double M8					
Storage temperature	0°C~ 30°C					
Safety standard	UN38.3,MSDS					
IP degree	IP20					
PROTECTION						
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection					
AMBIENT						
Working Temperature	-10°C~ +50°C					
Humidity	0~95% (no condensation)					
DIMENSION						
L×W×H (products size)MM	641*389*179	691*455*189	641*389*179	850*560*179	900*625*191	850*560*260±3
L×W×H (package size)MM	684*440*240 (UN carton)	734*515*247 (UN carton)	684*440*240 (UN carton)	898*635*265 (UN wooden cases)	948*690*372 (UN wooden cases)	898*635*425±3 (UN wooden cases)
Weight(NW)	44.5	62	62	86.5	133	134
Weight(GW)	48	66	66	101.5	148	150.7

Mi-Wall 25.6V / 51.2V Wall Mounted Lithium Battery with 5000 Cycles Cells



MODEL	MPI- 25.6V100Ah Mi-Wall series	MPI-25.6V200Ah Mi-Wall series	MPI-51.2V100Ah Mi-Wall series	MPI-51.2V200Ah Mi-Wall series
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Total Energy	2.560 kWh	5.120 kWh	5.120 kWh	10.240Wh
Voltage window	22.4 ~ 29.2V	22.4 ~ 29.2V	44.8 ~ 58.4V	44.8 ~ 58.4V
Low DC Cut-off Voltage	23.4V	23.4V	46.8V	46.8V
Max.continue discharge current	100A	150A	100A	150A
Max.pulse discharge current	150A 1Sec.	200A 1Sec.	150A 1Sec.	200A 1Sec.
Max.continue charge current	50A	100A	50A	100A
Scalable	1~15 in parallel			
Communication	RS485			
Cycle life	> 5000 Cycles@(+25°C,0.2C,90%DOD,60%EOL)			
Terminal	M8			
Storage temperature	0°C ~ 30°C			
Safety standard	UN38.3,MSDS			
IP degree	IP20			
PROTECTION				
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection			
AMBIENT				
Working Temperature	-10°C ~ +50°C			
Humidity	0~95% (no condensation)			
DIMENSION				
L×W×H (products size) mm	414*372*177mm	538*372*177 mm	538*372*177 mm	690*570*177 mm
L×W×H (package size) mm	487*435*208mm (UN carton)	612*422*208 mm (UN carton)	612*422*208 mm (UN carton)	775*635*220 mm (UN wooden cases)
Weight(NW Kg)	24.5Kg	42.5Kg	42.5Kg	83Kg
Weight(GW Kg)	26.3Kg	44.9Kg	44.9Kg	98Kg

Mi-Super High Quality EU/US Type Wall Mounted Lithium Battery With 6000 Cycles Cells



	MPI-51.2V100Ah Mi-Super Series	MPI-51.2V200Ah Mi-Super Series
Battery Type	LiFePO4	LiFePO4
Total Energy	5.120 kWh	10.240 kWh
Voltage window	44.8 ~ 58.4V	44.8 ~ 58.4V
Low DC Cut-off Voltage	46.8V	46.8V
Max.continue discharge current	100A	150A
Max.pulse discharge current	150A 1Sec.	200A 1Sec.
Max.continue charge current	50A	100A
Scalable	1~15 in parallel	
Communication	CAN,RS485	
Cycle life	> 6000 Cycles@(+25°C,0.5C,90%DOD,60%EOL)	
Terminal	double M6	
Storage temperature	0°C ~ 30°C	
Safety standard	UN38.3,MSDS	
IP degree	IP20/IP65	
PROTECTION		
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection	
AMBIENT		
Working Temperature	-10°C ~ +50°C	
Humidity	0~95% (no condensation)	
DIMENSION		
L×W×H (products size) mm	691*485*183mm	904*593*192mm
L×W×H (package size) mm	759*575*278mm(UN wooden cases)	960*691*360mm(UN wooden cases)
Weight(NW Kg)	50.0Kg	92.0Kg
Weight(GW Kg)	55.0Kg	113.5Kg

Mi-Smart Low Voltage Modular & Stacked Lithium Battery 5KWH-20KWH 6000 Cycles Cells



MODEL	MPI-51.2V100Ah	MPI-51.2V200Ah	MPI-51.2V300Ah	MPI-51.2V400Ah
SPECIFICATION	Mi-Smart Series	Mi-Smart Series	Mi-Smart Series	Mi-Smart Series
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Normal Capacity(25℃, 0.2C)	5120Wh*1 set	5120Wh*2set	5120Wh*3 set	5120Wh*4 set
Usable Energy(90%DOD)	4.608 kWh	9.216 kWh	13.824 kWh	18.432 kWh
Voltage window	44.8 ~ 58.4V	44.8~58.4V	44.8 ~ 58.4V	44.8 ~ 58.4V
Low DC Cut-off Voltage	46.8V	46.8V	46.8V	46.8V
Max.continue discharge current	100A	150A	200A	400A
Max.pulse discharge current	150A 1Sec.	200A1Sec.	300A 1Sec.	600A 1Sec.
Max.continue charge current	50A	100A	150A	200A
Scalable	1~15 in parallel			
Communication	CAN,RS485			
Cycle life	>6000 Cycles@(+25℃,0.5C,90%DOD,60%EOL)			
Terminal	double M6			
Storage temperature	0℃~ 30℃			
Safety standard	UN38.3,MSDS			
IP degree	IP54			
Communication function	RS485/CAN(Communication protocol supported inverter brand: Deye, Growatt, Voltroni, GOODWE, VICTRON, PYLONTEC, SMA, SOFAR)			
PROTECTION				
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection			

Mi-Smart Low Voltage Modular & Stacked Lithium Battery 5KWH-20KWH 6000 Cycles Cells



AMBIENT				
working Temperature	-10℃ ~ +50℃			
Humidity	0~95% (no condensation)			
DIMENSION OF EACH MODULAR				
L×W×H (Case base size) mm	703*490*95mm (7.0Kg)	703*490*95mm (7.0Kg)	703*490*95mm (7.0Kg)	703*490*95mm (7.0Kg)
L×W×H (Case base package size) mm	715*497*107mm (7.5Kg)	715*497*107mm (7.5Kg)	715*497*107mm (7.5Kg)	715*497*107mm (7.5Kg)
L×W×H (products size) mm	703*490*192mm * 1	703*490*192mm * 2	703*490*192mm* 3	703*490*192mm* 4
L×W×H (package size) mm	763*545*296mm* 1	763*545*296mm * 2	763*545*296mm* 3	763*545*296mm* 4
System Weight(NW Kg)	49.4Kg * 1	49.4Kg * 2	49.4Kg * 3	49.4Kg * 4
System Weight(GW Kg)	53.5Kg * 1	53.5Kg * 2	53.5Kg * 3	53.5Kg * 4
20FT QTY(UNIT)	196	98	65	49

MISHAY
POWER INFRA
Life to Clean & Sustainable Energy

MODEL SPECIFICAT ION	MPI- 10.2KWh	MPI- 15.3KWh	MPI- 20.4KWh	MPI- 25.6KWh	MPI- 30.7KWh	MPI- 35.8KWh	MPI- 40.9KWh	MPI- 46.0KWh	MPI- 51.2KWh
Battery cell type	LiFePO4								
Battery Module	51.2V / 100Ah								
No. of Module	2	3	4	5	6	7	8	9	10
Normal Capacity(25 °C,0.2C)	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh	35.84 kWh	40.96 kWh	46.08 kWh	51.2 kWh
Normal Voltage (dc)	102.4V	153.6V	204.8V	256.0V	307.2V	358.4V	409.6V	460.8V	512.0V
Voltage window (dc)	89.6 ~ 116.8V	134.4~175.2V	179.2~233.6V	224.0~292.0V	268.8~350.4V	313.6~408.8V	358.4~467.2V	403.2~525.6V	448.0~584.0V
Dimension(WxDxH MM)	703*490*611	703*490*803	703*490*995	703*490*1187	703*490*1379	703*490*1571	703*490*1763	703*490*1955	703*490*2147
Weight(NW Kg)	123Kg	172Kg	221Kg	266Kg	315Kg	368Kg	417Kg	466Kg	515Kg
Normal charge/ discharge current	50A								
Max.charge/ discharge current	100A								
Cycle life (+25°C 0.2C 90%DOD)	6000								
Terminal	Double M8								
Storage temperature	0°C ~ 30°C								

Mi-Smart High Voltage Modular & Stacked Lithium Battery 10KWH-50KWH 6000 Cycles Cells



Safety standard	UN38.3,MSDS,IEC62619,EN62619,EN61000
IP degree	IP54
Communication function	RS485,CAN
PROTECTION	
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection
AMBIENT	
working Temperature	-10°C ~ +50°C
Humidity	0~95% (no condensation)

Mi-Cube 4U Rack Mounted Lithium Battery with 6000 Cycles Cells



MODEL	MPI-51.2V100Ah Mi-Cube series	MPI-51.2V200Ah Mi-Cube series
Battery Type	LiFePO4	
Total Energy	5.120 kWh	10.240 kWh
Voltage window	44.8 ~ 58.4V	44.8 ~ 58.4V
Low DC Cut-off Voltage	46.8V	46.8V
Max.continue discharge current	100A	150A
Max.pulse discharge current	150A 1Sec.	200A 1Sec.
Max.continue charge current	50A	100A
Scalable	1~15 in parallel	
Communication	CAN,RS485	
Cycle life	> 6000 Cycles@(+25°C,0.5C,90%DOD,60%EOL)	
Terminal	double M6	
Storage temperature	0°C ~ 30°C	
Safety standard	UN38.3, MSDS	
IP degree	IP20	
PROTECTION		
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection	
AMBIENT		
Working Temperature	-10°C ~ +50°C	
Humidity	0~95% (no condensation)	
DIMENSION		
L×W×H (products size) mm	565*440*176mm	800*440*176mm
L×W×H (package size) mm	665*530*276mm(UN carton)	905*535*306mm(UN wooden cases)
Weight(NW Kg)	46.0Kg	75.0Kg
Weight(GW Kg)	51.0Kg	86.5Kg

Mi-Tower 10KWH Wall Stand Lithium Battery with 3000 Cycles Cells



MODEL	MPI-51.2V200Ah Mi-Tower series
Battery Type	LiFePO4
Total Energy	10.240 kWh
Voltage window	44.8 ~ 58.4V
Low DC Cut-off Voltage	46.8V
Max.continue discharge current	150A
Max.pulse discharge current	200A 1Sec.
Max.continue charge current	100A
Scalable	1~15 in parallel
Communication	RS485,CAN(optional)
Cycle life	> 3000 Cycles@(+25°C,0.5C,80%DOD,60%EOL)
Terminal	M8
Storage temperature	0°C ~ 30°C
Safety standard	UN38.3,MSDS
IP degree	IP20
PROTECTION	
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection
AMBIENT	
Working Temperature	-10°C ~ +50°C
Humidity	0~95% (no condensation)
DIMENSION	
L×W×H (products size) mm	453*356*770mm
L×W×H (package size) mm	530*435*920mm (UN wooden cases)
Weight(NW Kg)	132.5Kg
Weight(GW Kg)	139.5Kg

Mi-Max 12.8V / 25.6V Lithium Battery to Replace Lead Acid Battery



MODEL SPECIFICATION	Mi-MAX 12.8V50AH	Mi-MAX 12.8V100AH	Mi-MAX 12.8V150AH	Mi-MAX 12.8V200AH	Mi-MAX 25.6V100AH	Mi-MAX 25.6V150AH
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Normal Battery Model	12.8V 50 AH	12.8V 100AH	12.8V 150AH	12.8V 200AH	25.6V 100AH	25.6V 150AH
Normal Capacity(25°C, 0.2C)	0.640 Wh	1.280 kWh	1.920 kWh	2.560 kWh	2.560 kWh	3.840 kWh
Max.continue discharge current	50A	100A	100A	200A	100A	150A
Max.pulse discharge current	100A 1Sec.	200A 1Sec.	200A 1Sec.	300A 1Sec.	200A 1Sec.	200A 1Sec.
Max.continue charge current	25A	50A	100A	100A	50A	75A
Cells Brand	Guoxuan	CATL	CATL	CATL	CATL	CATL
Cycle life(+25°C 0.2C 100% DoD)	>5000 Cycles					
Terminal	M6	M8				
Storage temperature	0°C~ 30°C					
Safety standard	UN38.3,MSDS,CE					
IP degree	IP65					
PROTECTION						
Protection	Over charge protection, Over discharge protection, Over current protection, Short-circuit protection, Over temperature protection					
AMBIENT						
Working Temperature	-10°C~ +50°C					
Humidity	0~95% (no condensation)					
Sea Level(m)	≤1500					
DIMENSION						
L×W×H (products size) mm	231*145*211	332*172*220	484*170*240	522*218*238	522*218*238	522*218*238
L×W×H (package size) mm	239*154*252	342*181*265	497*180*292	532*252*268	532*252*268	532*252*268
Weight(NW Kg)	5.5kg	12.0kg	15.0kgs	27.0Kg	27.0Kg	30.0Kg
Weight(GW Kg)	6.0kg	13.0kg	16.0kg	28.0Kg	28.0Kg	32.0Kg

ESS Balcony Energy Storage System

600W 800W 1000W



Model No .	ESS V	ESS V	ESS V
Off Grid Operation			
Max. PV input power	1200W		
Rated AC output power	1000W		
Output pe ak power (W)	2000W(200ms)		
Grid-Tie Operation			
Rated power	600W	800W	1000W
Grid connected power	600W	800W	1000W
Mains charging current	0-40A adjus table		
AC input voltage range	180-265VAC		
Input frequency range	50Hz/60Hz ±3Hz		
AC input connection type	L/N/PE		
MPPT Solar Charger			
Rated battery voltage	25.6V		
Charging current	40A max		
PV input voltage range	36-60VDC		
PV input power	1200W max.		
PV charging power	1000W max.		
Number of PV input tracker	1		
PV input interface	Anderson interface		
Output (AC)			
Nominal output Volt	220Vac, Single Phase		
Output frequency	50/60hz		
Nominal output current	4.5A		
Power factor	1		

ESS Balcony Energy Storage System

600W 800W 1000W



Max. conversion efficiency (DC/AC)	91.5%max
Energy Storage Information	
Nominal battery voltage	25.6VDC
Core material	Lithium iron phospho te battery
Energy storage capacity	1.536 kWh / 2.688 kWh
Core cycle	≥6000cycles&25°C Standard charging and discharging process@80% SOH
General Infomration	
PV cable	1 piece 4m ² *5m double core 4m ² PV cable
AC cable	1 European power cord 1.8m
Products dimension,D X W X H (mm)	744*420*160MM
Products package,D X W X H (mm)	860*490*265MM
Product net weight(kgs)	30kg /43KG
Product gross weight(kgs)	31k g/45KG
Environment	
The noise	60dB Max (1 meter)
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating temperature	-10°C to 50°C
Storage temperature	-15°C to 60°C

All-in-one Home Solar System



MODEL SPECIFICATION	ESS 1 KVA/ 1.28 kWh	ESS 3 KVA/ 2.56 kWh
Inverter / Charger		
Inverter Type	1 KVA / 12V	3 KVA / 24V
Rated Output Power	1 KW	2.7 KW
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave
Output Voltage	230VAC 50HZ	230VAC 50HZ
Charging Current(Utility and solar together)	60A Max.	80A Max.
AC Input		
Nominal Input Voltage	230 Vac	230 Vac
Voltage Range	170-280 Vac(UPS), 90-280 Vac (Appliances)	170-280 Vac(UPS), 90-280 Vac (Appliances)
Nominal Input Frequency	50HZ / 60HZ(Auto detection)	50HZ / 60HZ(Auto detection)
AC Charging Current	20A Max.	60A Max.
Solar Input		
Nominal PV Voltage	36 Vdc	240 Vdc
PV Array MPPT Voltage Range	15 Vdc~80Vdc	30 Vdc~350Vdc
Solar Charging Current	40A Max.	80A Max.
Lithium Iron Battery		
Capacity	1.280 kWh	2.560 kWh
Nominal Battery Voltage	12.8 Vdc	25.6 Vdc
Typical Capacity	100Ah	100Ah
Max.Charge Current	50A	50A
Max.Discharge Current	100A	100A
Operation Temperature	-10℃~+50℃	
Protection		
Protection	Overcharge / Overdischarge / Overcurrent / Overtemperature / Shortcircuit protection	

Alpha All-in-one Home Solar System



Ambient		
Noise(dB)	< 40dB (1 meter)	
working Temperature	-10℃ ~ +50 ℃	
Humidity	0~95% (no condensation)	
Sea Level(m)	≤1500	
Dimension		
L×W×H (products size)	L450*W213*H636mm	L450*W279*H731mm

ESS Energy Storage System 6KW 8KW 11KW



MODEL SPECIFICATION	Apollo-ES W	Apollo-ESS 8KW	Apollo-ES W
Inverter / Charger			
Inverter Type	6 KW / 48 V Hybrid	8 KW / 48 V Hybrid	11 KW / 48V Hybrid
Rated Output Power	6KW	8KW	11KW
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output Voltage	230 VAC 50 HZ	230 VAC 50 HZ	230 VAC 50 HZ
Low DC Warning Voltage	45.8 Vdc	45.8 Vdc	45.8 Vdc
Low DC Cut-off Voltage	44.8 Vdc	44.8 Vdc	44.8 Vdc
Low DC Warning Return Voltage	46.8 Vdc	46.8 Vdc	46.8 Vdc
Charging Current (Utility and solar together)	120A Max .	120A Max .	150A Max .
AC Input			
Nominal Input Voltage	230 Vac	230 Vac	230 Vac
Low Loss Voltage	170 Vac $\pm$ 7(UPS), 90 Vac $\pm$ 7(Appliances)	170 Vac $\pm$ 7(UPS), 90 Vac $\pm$ 7(Appliances)	170 Vac $\pm$ 7(UPS), 90 Vac $\pm$ 7(Appliances)
Low Loss Return Voltage	180 Vac $\pm$ 7(UPS), 100 Vac $\pm$ 7(Appliances)	180 Vac $\pm$ 7(UPS), 100 Vac $\pm$ 7(Appliances)	180 Vac $\pm$ 7(UPS), 100 Vac $\pm$ 7(Appliances)
High Loss Voltage	280 Vac $\pm$ 7	280 Vac $\pm$ 7	280 Vac $\pm$ 7
High Loss Return Voltage	270 Vac $\pm$ 7	270 Vac $\pm$ 7	270 Vac $\pm$ 7
Max. AC Input Voltage	300 Vac	300 Vac	300 Vac
Nominal Input Frequency	50HZ / 60HZ(Auto detection)	50HZ / 60HZ(Auto detection)	50HZ / 60HZ(Auto detection)
AC Charging Current	120A Max .	120A Max .	150A Max .

ESS Energy Storage System 6KW 8KW 11KW



Solar Input			
Nominal PV Voltage	360 Vdc	360 Vdc	360 Vdc
PV Array MPPT Voltage Range	120 Vdc ~ 450 Vdc	120 Vdc ~ 450 Vdc	120 Vdc ~ 450 Vdc
Max. PV Array Open Circuit Voltage	500 Vdc	500 Vdc	500 Vdc
Solar Charging Current	120A Max .	120A Max .	120A Max .
Lithium Iron Battery			
Capacity	5120Wh * N		
Nominal Battery Voltage	51.2Vdc		
Typical Capacity	100Ah * N set		
Max.Char ge Current	50A * N		
Max.Discharge Current	100A * N		
Operation Voltage Range	44.8Vdc ~ 58.4Vdc		
Operation Temperature	-10℃ ~ +50℃		
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection		
Ambient			
Noise(dB)	< 40dB (1 meter)		
Working Temperature	-10℃ ~ +50℃		
Humidity	0~95% (no condensation)		
Sea Level(m)	≤1500		
Inverter Dimension L×W×H (MM)	L682*W460*H160mm	L682*W460*H160mm	L682*W460*H160mm
Single Battery Pack Dimension (MM)	L525*W460*H160mm	L525*W460*H160mm	L525*W460*H160mm
STORAGE SOLAR SYSTEM			

Energy Storage System

5 KWh - 20 KWh



SPECIFICATION	ESS 6 KW / 5 KWH	ESS 6 KW / 10 KWH	ESS 6 KW / 15KWH	ESS PRO 6KW/20KWH
INVERTER / CHARGER				
Inverter Type	6KW/48V Hy brid	6KW/48V Hy brid	6KW/48V Hy brid	6KW/48V Hybrid
Rated Output Power	6KW	6KW	6KW	6KW
Output Voltage Waveform	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output Voltage	230VAC 50HZ	230VAC 50HZ	230VAC 50HZ	230VAC 50HZ
Low DC Warning Voltage	45.8Vdc	45.8Vdc	45.8Vdc	45.8Vdc
Low DC Cut-off Voltage	44.8Vdc	44.8Vdc	44.8Vdc	44.8Vdc
Low DC Warning Return Voltage	46.8Vdc	46.8Vdc	46.8Vdc	46.8Vdc
Total Charging Current(Grid+solar)	120A Max.	120A Max.	120A Max.	120A Max.
LITHIUM IRON BATTERY				
Normal Battery Modular	51.2V100Ah*1	51.2V100Ah*2	51.2V100Ah*3	51.2V100Ah*4
Normal Capacity(25°C, 0.2C)	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Nominal Battery Voltage	51.2Vdc	51.2Vdc	51.2Vdc	51.2Vdc
Nominal Capacity	100AH	200AH	300AH	400AH
Max.Charge Current	150A 1Sec.	300A 1Sec.	450A 1Sec.	600A 1Sec.
Max.Discharge Current	50A	100A	150A	200A
Operation Voltage Range	44.8Vdc ~ 58.4Vdc	44.8Vdc ~ 58.4Vdc	44.8Vdc ~ 58.4Vdc	44.8Vdc ~ 58.4Vdc
Operation Temperature	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C	-10°C ~ +50°C
AC INPUT				
Nominal Input Voltage	230Vac			

ESS-Pro Energy Storage System

5KWh-20KWh



Low Loss Voltage	170Vac $\pm$ 7(UPS), 90Vac $\pm$ 7(Appliances)
Low Loss Return Voltage	180Vac $\pm$ 7(UPS), 100Vac $\pm$ 7(Appliances)
High Loss Voltage	280Vac $\pm$ 7
High Loss Return Voltage	270Vac $\pm$ 7
Max. AC Input Voltage	300Vac
Nominal Input Frequency	50HZ / 60HZ(Auto detection)
AC Charging Current	120A Max.
SOLAR INPUT	
Nominal PV Voltage	360Vdc
PV Array MPPT Voltage Range	120Vdc~450Vdc
Max. PV Array Open Circuit Voltage	500Vdc
Solar Charging Current	120A Max.
PROTECTION	
Protection	Over charge protection, Over discharge protection, Over current protection, Shortcircuit protection, Over temperature protection
AMBIENT	
Noise(dB)	< 30°C < 40dB (1 meter)
Working Temperature	-10°C ~ +50°C
Humidity	0~95% (no condensation)
Sea Level(m)	$\leq$ 1500
OTHERS	
Efficiency	92.00%
Warranty	5 Years

Solar Power Pack



A solar power pack integrates solar panels, battery storage, and an inverter to deliver uninterrupted clean energy. It's built for quick deployment, making it ideal for backup power and sustainable operations.





Contact us

+91-88499-04201

info@mishaypowerinfra.com