

**INDUSTRIAL
AND COMMERCIAL
ENERGY STORAGE SYSTEM**

GEEPOWER NEW ENERGY TECHNOLOGY CO.,LTD

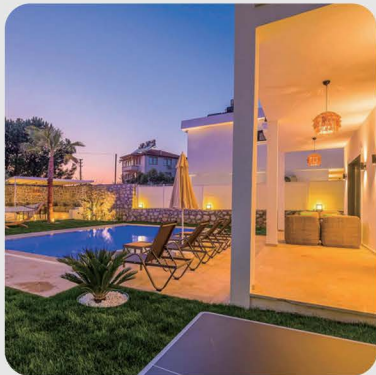
WhatsApp/WeChat/Tel: +86 13790277376

E-mail: Info@geebattery.com

Web: www.geepoweress.com

Green Energy ; Low Carbon
Electricity Free

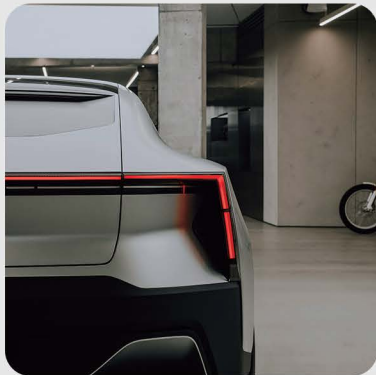
Various Application



Home energy
Reduce dependence on power grids in areas with high electricity prices and unstable power grids



Emergency power guarantee
Provide emergency power during power outages to ensure the normal operation of key equipment such as operating rooms and ICUs.



Electric vehicle charging
Solar energy systems and energy storage devices can provide stable power for electric vehicles



Peak off-peak electricity prices
Store electricity when electricity prices are low and use it during peak electricity prices to reduce energy costs.



Renewable energy integration
Energy storage systems help factories and industrial parks use solar power to generate electricity and reduce oil-based power generation



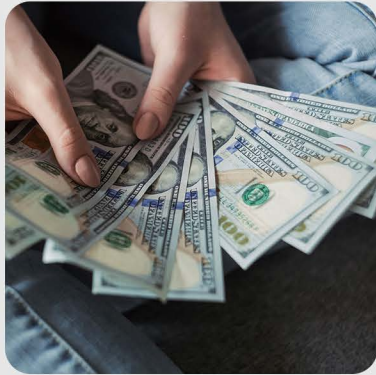
Improve power stability
Ensure the stable operation of the production line and avoid production interruption and losses caused by power outages.



Energy cost management
Energy usage can be optimized through solar energy storage systems and overall electricity bills can be reduced.

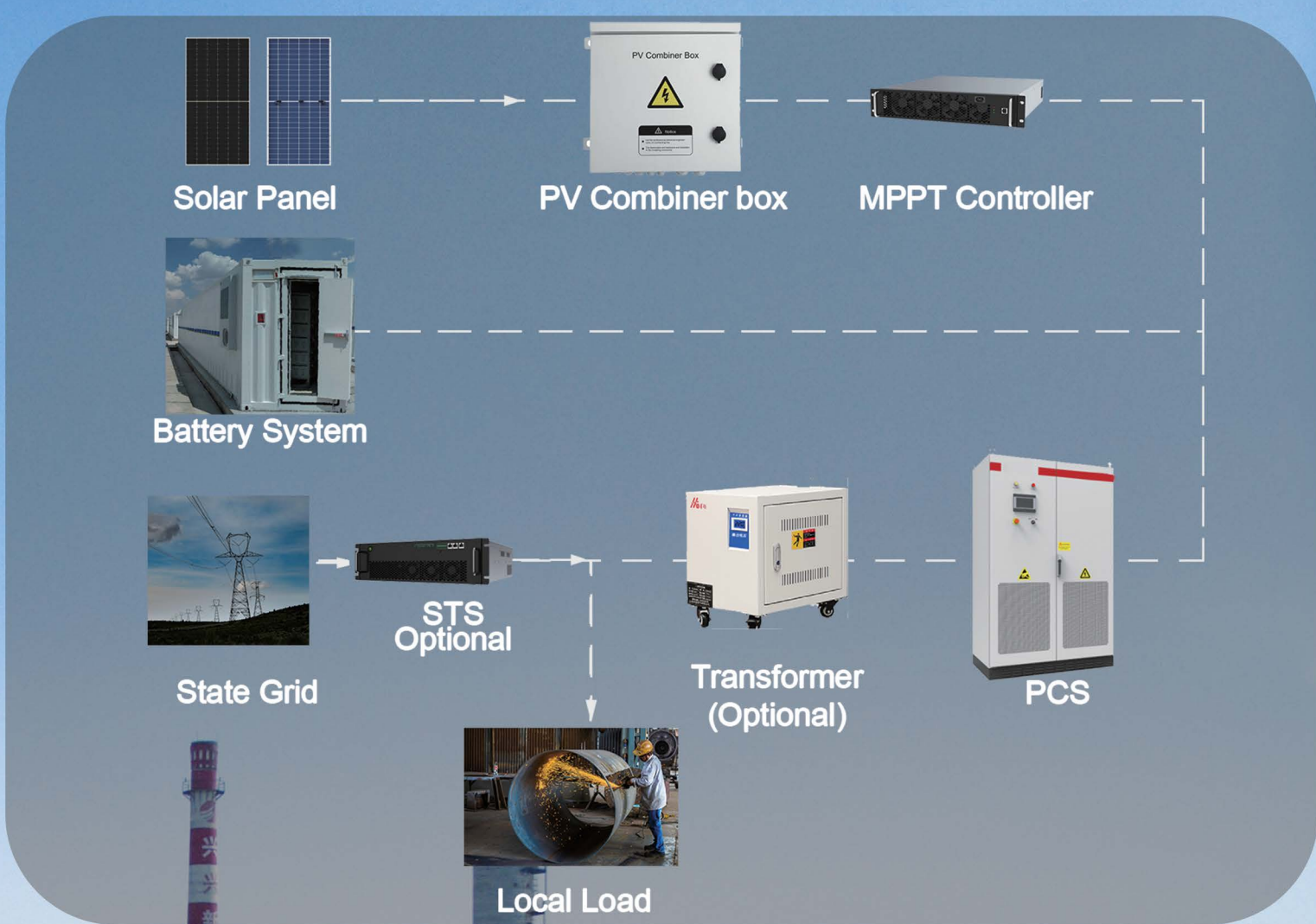


Microgrid applications
In areas remote from the main grid, commercial facilities can achieve independent energy supplies through microgrids and energy storage systems



Electricity demand response
Obtain compensation through selling electricity and improve energy efficiency.

Energy Storage Solutions



Integrated Series

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Cabinet Design



50KW/100KWH

ALL IN ONE SERIES

Integrated Turnkey C&I ESS solution



Model	ESS-GPI100
Parameter	50KW/100KWH
Cooling Method	Air Cooling / Liquid Cooling



Battery Type	Lithium Iron Phosphate Battery(LFP)
Rated Battery Capacity	100KWH
Rated Voltage	672V
Cell Capacity	150AH
Connection Method	10 Modules*(1 Module 21S1P)



Max. PV Input Voltage	1000V
Max. PV Power	65KW
MPPT Quantity	4 Trackers
MPPT Voltage Range	150-850V



Rated Power	50KW
Max Power Output	55KW
Rated Frequency	50/60Hz
AC Connection	3L/N/PE
Rated voltage	220/380,230/400VDC
Nominal current rating	75.8/72.5A

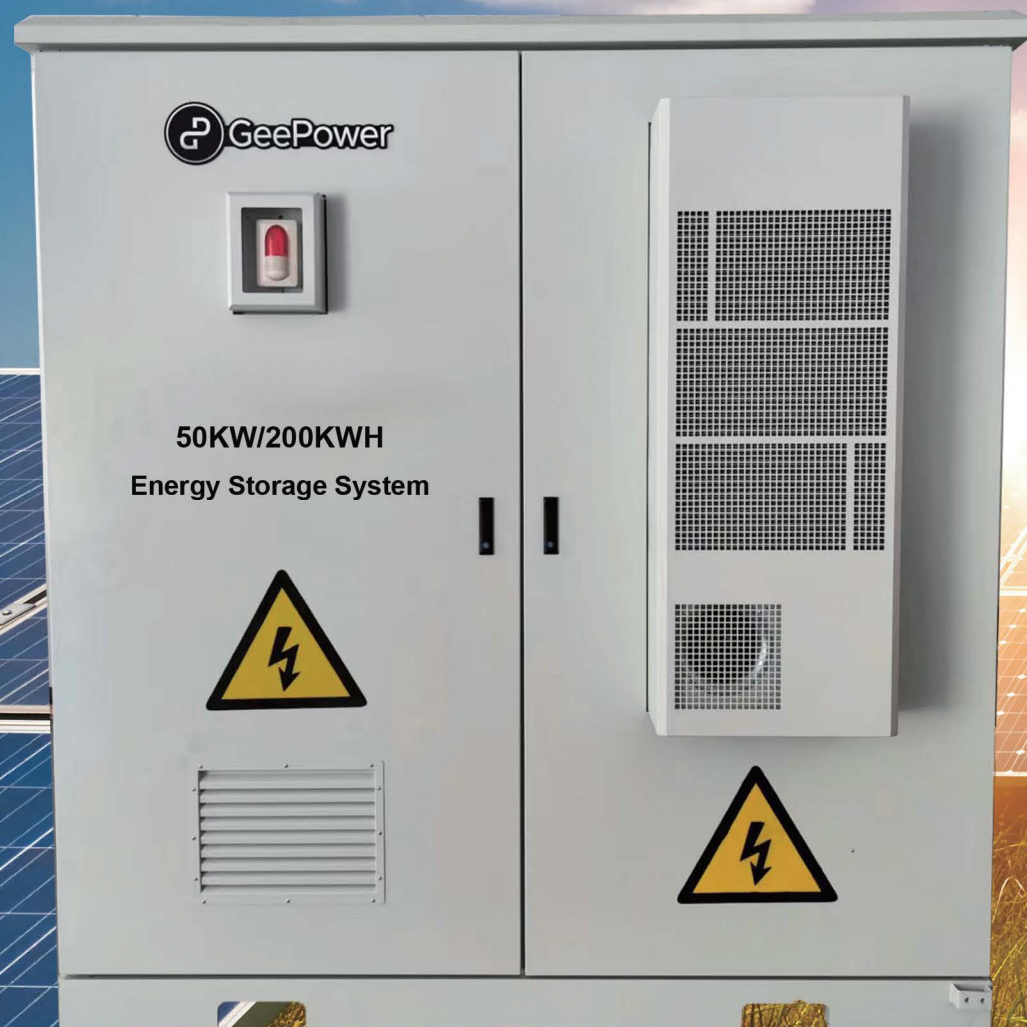


Protection level	IP54
Fire protection system	Aerosols/Perfluorohexanone/ Heptafluoropropane
Isolation Method	Non-isolated (Optional Transformer)
Operating Temperature	-25~55°C(Derating Above 45°C)
Altitude	3000m(>3000m Derating)
Communication Interface	4G/LAN/RS485/CAN
Dimension (L*W*H)	1150*1100*2300mm
Weight	1080kg

Integrated Series

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Cabinet Design



50KW/200KWH

ALL IN ONE SERIES

Integrated Turnkey C&I ESS solution



Model	ESS-GPI200
Parameter	50KW/200KWH
Cooling Method	Liquid Cooling



Battery Type	Lithium Iron Phosphate Battery(LFP)
Rated Battery Capacity	200KWH
Rated Voltage	716.8V
Cell Capacity	280AH
Connection Method	14 Modules*(1 Module 16S1P)



Max. PV Input Voltage	1000V
Max. PV Power	65KW
MPPT Quantity	4 Trackers
MPPT Voltage Range	150-850V



Rated Power	50KW
Max Power Output	55KW
Rated Frequency	50/60Hz
AC Connection	3L/N/PE
Rated voltage	220/380,230/400VDC
Nominal current rating	75.8/72.5A



Protection level	IP54
Fire protection system	Aerosols/Perfluorohexanone/ Heptafluoropropane
Isolation Method	Non-isolated (Optional Transformer)
Operating Temperature	-25~55°C(Derating Above 45°C)
Altitude	3000m(>3000m Derating)
Communication Interface	4G/LAN/RS485/CAN
Dimension (L*W*H)	2460*1027*2361.5mm
Weight	4500kg

Integrated Series

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Container Design



500KW/1200KWH

ALL IN ONE SERIES

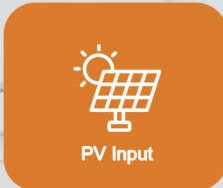
Integrated Turnkey C&I ESS solution



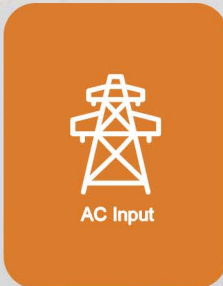
Model	ESS-GPI1200
Parameter	500KW/1200KWH
Cooling Method	Liquid Cooling



Battery Type	Lithium Iron Phosphate Battery(LFP)
Rated Battery Capacity	1200KWH
Rated Voltage	716.8V
Cell Capacity	280AH
Connection Method	6Clusters*14 Modules*(1 Module 16S1P)



Max. PV Input Voltage	1000V
Max. PV Power	600/660/720KW
MPPT Voltage Range	250-850V
MPPT Voltage Range@full load	450-850V



Rated Power	500KW
Max Power Output	550KW
Rated Frequency	50/60Hz
AC Connection	3W/N/PE
Rated voltage	400V
Nominal current rating	722A



Protection level	IP54
Fire protection system	Aerosols/Perfluorohexanone/ Heptafluoropropane
Isolation Method	315/400Transformer ratio
Operating Temperature	-30~55°C(Derating Above 45°C)
Altitude	5000m(>3000m Derating)
Communication Interface	4G/LAN/RS485/CAN
Dimension (L*W*H)	20GP Container
Weight	24500kg

BESS SERIES

Module design for quick installation
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Battery Cabinet



100KWH

BESS SERIES

Battery Energy Storage System Solution

Battery Cell

Model	ESS-GPB100
Nominal Capacity	150AH
Nominal Voltage	3.2V
Standard Charging Current	75A
Battery Type	Lithium Iron Phosphate Battery(LFP)
Battery Cycle Life	6000 Times

Battery Module

Number Of Cells	21 PCS
Rated Voltage	67.2V
Voltage Range	52.5-76.65V
Battery Energy	10.08KWh
Connection Method	21S1P

Battery System

Rated System Capacity	100.8KWH
Rated Output Voltage	672V
Output Voltage Range	525-766.5V
Battery Pack Quantity	10PACKS
Connection Method	10 Modules*(1 Module21S1P)
Operating Ambient Temperature	0℃~50℃
Operating Relative Humidity	0~95%
External Communication	Can Bus
System Dimensions(W*D*H)	1000*800*2000mm
System Weight	≈1800KG
Cooling Method	Liquid Cooling
IP Level	IP 65
Altitude	5000M

BESS SERIES

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Battery Cabinet



200KWH

BESS SERIES

Battery Energy Storage System Solution

Battery Cell

Model	ESS-GPB200
Nominal Capacity	280AH
Nominal Voltage	3.2V
Standard Charging Current	140A
Battery Type	Lithium Iron Phosphate Battery(LFP)
Battery Cycle Life	6000 Times

Battery Module

Number Of Cells	16 PCS
Rated Voltage	51.2V
Voltage Range	40-58.4V
Battery Energy	14.336KWh
Connection Method	16S1P

Battery System

Rated System Capacity	200.7KWH
Rated Output Voltage	716.8V
Output Voltage Range	560-817.6V
Battery Pack Quantity	14 PACKS
Connection Method	14 Modules*(1 Module16S1P)
Operating Ambient Temperature	0℃~50℃
Operating Relative Humidity	0~95%
External Communication	Can Bus
System Dimensions(W*D*H)	1000*800*2000mm
System Weight	≈1800KG
Cooling Method	Liquid Cooling
IP Level	IP 65
Altitude	5000M

BESS SERIES

Module design for quick installation
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Battery Cabinet



400KWH

BESS SERIES

Battery Energy Storage System Solution

 Battery Cell	Model	ESS-GRID B400
	Nominal Capacity	280AH
	Nominal Voltage	3.2V
	Standard Charging Current	140A
	Battery Type	Lithium Iron Phosphate Battery(LFP)
	Battery Cycle Life	6000 Times
 Battery Module	Number Of Cells	16 PCS
	Rated Voltage	51.2V
	Voltage Range	40-58.4V
	Battery Energy	14.336KWh
	Connection Method	16S1P
 Battery Cluster	Number Of Modules	14 Modules
	Battery Energy	200.704KWH
	Nominal Voltage	716.8V
	Voltage Range	560-817.6V
	Nominal Capacity	280AH
	Battery Cycle Life	4000 Times
 Battery System	Rated System Capacity	401.408KWH
	Rated Output Voltage	716.8V
	Output Voltage Range	560-817.6V
	Battery Cluster Quantity	2 Cluster
	Connection Method	2 Cluster *14 Modules(16S1P)
	Operating Ambient Temperature	0℃~50℃
	Operating Relative Humidity	0~95%
	External Communication	Can Bus
	System Dimensions(W*D*H)	2000*800*2000mm
	System Weight	≈4500KG
	Cooling Method	Liquid Cooling
	IP Level	IP 65
	Altitude	5000M

BESS SERIES

Module design for quick installation
Advanced inverter with pure sine wave
Multi-protection from self developed BMS
Brand new battery for 6000 times cycle life

Battery Cabinet



600KWH

BESS SERIES

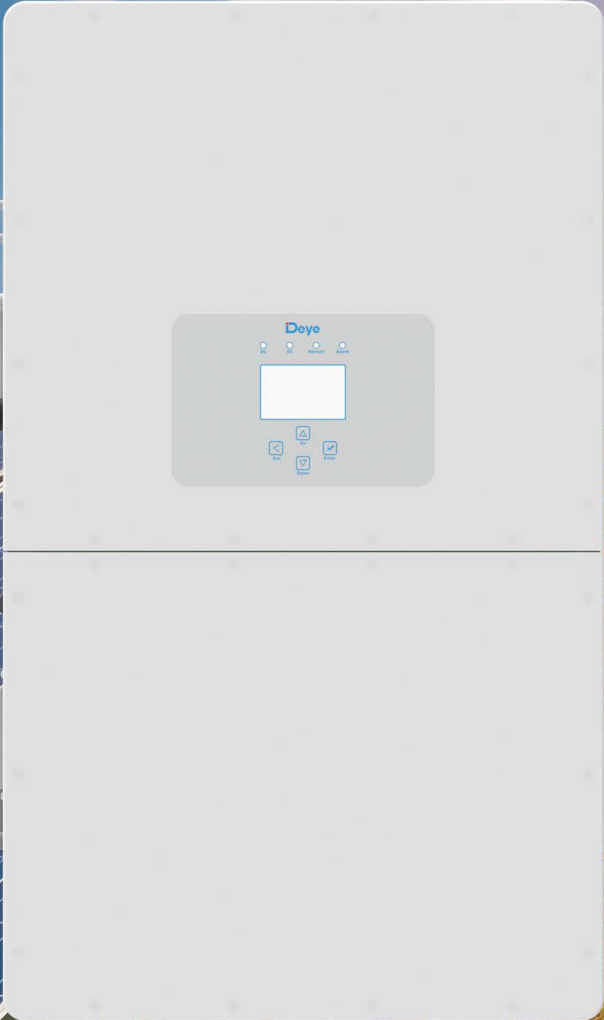
Battery Energy Storage System Solution

 Battery Cell	Model	ESS-GPB600
	Nominal Capacity	280AH
	Nominal Voltage	3.2V
	Standard Charging Current	140A
	Battery Type	Lithium Iron Phosphate Battery(LFP)
	Battery Cycle Life	6000 Times
 Battery Module	Number Of Cells	16 PCS
	Rated Voltage	51.2V
	Voltage Range	40-58.4V
	Battery Energy	14.336KWh
	Connection Method	16S1P
 Battery Cluster	Number Of Modules	14 Modules
	Battery Energy	200.704KWH
	Nominal Voltage	716.8V
	Voltage Range	560-817.6V
	Nominal Capacity	280AH
	Battery Cycle Life	4000 Times
 Battery System	Rated System Capacity	602.112KWH
	Rated Output Voltage	716.8V
	Output Voltage Range	560-817.6V
	Battery Cluster Quantity	3 Cluster
	Connection Method	3 Cluster *14 Modules(16S1P)
	Operating Ambient Temperature	0℃~50℃
	Operating Relative Humidity	0~95%
	External Communication	Can Bus
	System Dimensions(W*D*H)	3000*800*2000mm
	System Weight	≈6300KG
	Cooling Method	Liquid Cooling
	IP Level	IP 65
	Altitude	5000M

PCS SERIES

PV controller modular design, easy to expand
Support battery capacity and discharge time prediction
Perfect protection function for inverter and battery
Support simultaneous access of load,battery,power grid ,
diesel and PV

Hybrid Inverter



Deye 50KW

PCS SERIES

Hybrid Inverter Solution



ESS
Battery input

Model	SUN-50K-SG01HP3-EU-BM4
Battery Type	Li-Ion
Battery Voltage Range(V)	160~800
Max. charging Current(A)	50+50
Max. Discharging Current(A)	50+50
Max. Charging/Discharging Power(w)	55000
Number of battery input	2
Charging Strategy for Li-Ion Battery	Self-adaption to BMS



PV String input

Max. DC input Power(w)	65000
Max. DC Input Voltage (V)	1000
Start-up Voltage(V)	180
MPPT Range(v)	150-850
Full Load Dc Voltage Range (V)	450-850
Rated Dc input Voltage (V)	600
PV input Current(A)	36+36+36+36
Max.PV Isc(A)	55+55+55+55
No.of MPPT Trackers	4
No. of Strings Per MPPT Tracker	2+2+2+2



Ac Output

Rated Ac Output and UPS Power(W)	50000
Max. AC Output Power(W)	55000
Peak Power(off grid)	1.5 time of rated power, 10 s
AC Output Rated Current(A)	75.8/72.5
Max. AC Current(A)	83.4/79.8
Max. 3 phase Unbalanced Output Current(A)	83.3
Max. Continuous AC Passthrough(A)	200
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380,230/400Vac
Grid Type	Three Phase
Total Harmonic Distortion (THD)	<3% (of nominal power)
Dc current injection	<0.5% In

PCS SERIES

PV controller modular design, easy to expand
Support battery capacity and discharge time prediction
Perfect protection function for inverter and battery
Support simultaneous access of load,battery,power grid ,
diesel and PV

PCS Cabinet



100KW


PV input

Model	MGS100-TM
Max input power(kVA)	100KW (50KW*2)
Max voltage(V)	900
MPPT Voltage range(V)	180-800
MPPT Numbers	2


Battery

Battery Type	Li-Ion
Battery voltage range(V)	250-810V
Max. charging power(kW)	100KW
Max. Discharging power(kW)	110KW
Max. charging Current(A)	200A
Max. Discharging Current(A)	200A


Ac Output

AC Connection	Three-phase three-wire/three-phase four-wire
Rated Output power(KVA)	100KVA
Max output power(KVA)	110KVA
Max Grid Input power(KVA)	200KVA
Rated frequency (Hz)	50/60Hz
Rated current (A)	144A
Isolation Transformer	Optional
Over-load Cability	110% Long term
Efficiency Factor	0.99/-1~1


ESS
General data

Dimension W*D*H(mm)	1100 × 1960 × 1050mm
Weight(kg)	455KG
Operation temperature	-25℃~55℃ (45℃ Derating)
Relative humidity	5%~95%RH, No condensation
Altitude	4000m(2000m start derating)
Cooling	Smart Air Cooling
Communication	Ethernet /4G/RS485/CAN
Waterproof Level	IP20/IP54
Protection Level	I
Overvoltage Level	II(DC),III(AC)
Feature	Anti-islanding protection, insulation detection
Protection	surge , overcurrent , short circuit protection,etc

PCS SERIES

PV controller modular design, easy to expand
Support battery capacity and discharge time prediction
Perfect protection function for inverter and battery
Support simultaneous access of load,battery,power grid ,
diesel and PV

Hybrid Inverter



Megarevo 500KW

 AC(On Off Grid)	Model	MPS0500
	Max output power(kVA)	550
	Rated power(kW)	500
	Rated voltage(V)	400
	Rated current (A)	722
	Voltage range(V)	320~460
	Rated frequency (Hz)	50/60
	AC connection	3W+N+PE
 Photovoltaic input	Transformer ratio	315/400
	Max.PV input voltage(V)	1000
	Max.PV power(kW)	600/660/720
	MPPT voltage range(V)	250-850
 Battery	MPPT voltage range@full load (V)	450-850
	Battery Type	Li-Ion
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS
	Battery voltage range(V)	500~850
 ESS General data	Max. charging power(kW)	600/660/720
	Dimension W*D*H(mm)	(600*720*2050)*2+1600*1050*2050
	Weight(kg)	3265/3295/3325
	Operation temperature	-30℃ ~ 55℃
	Relative humidity	0 ~95% non-condensing
	Ingress protection	IP20
	Noise emission(dB)	<70dB
	Altitude	5,000m(>3,000 Derating)
	Cooling	Air Cooling
	Display	LCD touch-screen
	BMS communication	RS485, CAN
	EMS communication	RS485, TCP/IP
	Certificates	EN62109-1/-2, EN62477-1, EN61000-6-2,/6-4

PV SERIES

Better Performance
Multi Busbar Technology
Maximum Efficiency up to 22.8%
Lower annual attenuation, better photoelectric
Strict selection of encapsulation materials eliminates PID risk

585W



12 Years Product Warranty
30 Years Linear Power Warranty

Solar Panel SERIES

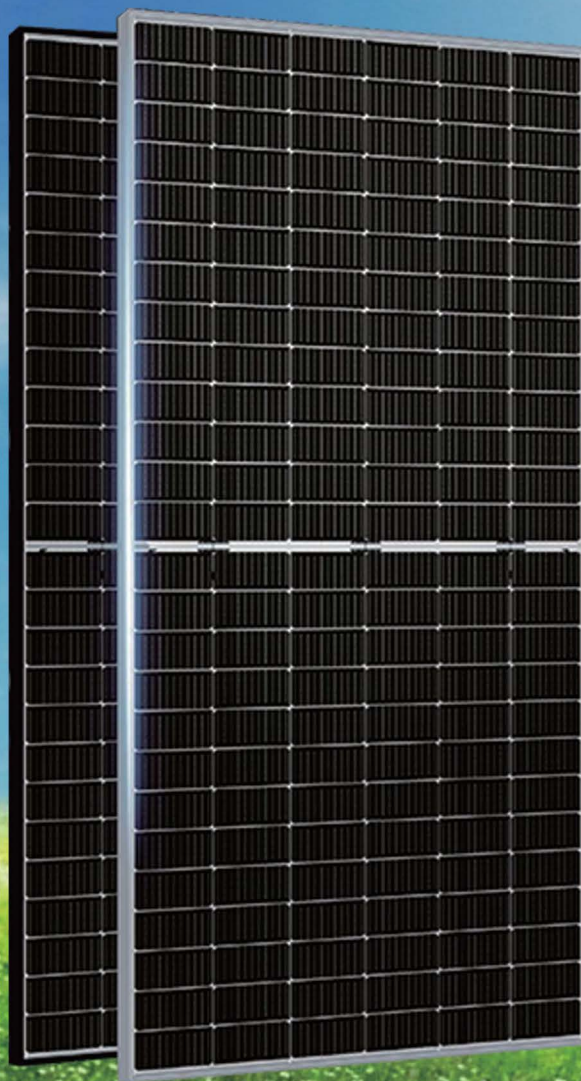
Solar System Solution

 Electrical Parameter (STC)	Model	ESS-GPP585
	Maximum power (W)	585
	Working point voltage (V)	43.33
	Working point current (A)	13.50
	Open circuit voltage (v)	51.35
	Short circuit current (A)	14.50
	PV module efficiency	22.65%
	Standard test conditions	AM1.5, Irradiance 1000w/m², Cell Temperature 25°c
 Mechanical Parameters	Module size	2278*1134*30mm
	Number of solar cells	144Cells(2*6*12)
	Weight	31kg±5%
	Junction Box	IP68, 3 diodes
	Cables	4mm², +:300mm/-:200mm(Customizable)
	Front plate glass	2.0mm,Ultra white AR coated semi-toughened glass
	Rearplate glass	2.0mm,semi-toughened glass
	Static load on the front	5400Pa
 Temperature Parameter	NMOT	42±2°C
	Maximum power(Pmax)	-0.30%/°C
	Open circuit voltage(Voc)	-0.25%/°C
	Short circuit current(Isc)	+0.045/°C
 Maximum Ratings	Working temperature	-40~+85°C
	Maximum system voltage	1500VDC
	Maximum fuse rated current	30A
 Packaging&Transport	Box Quantity	36 Pcs/box
	Container	40'HQ
	Container Quantity	720 Pcs(20 boxes)

PV SERIES

Better Performance
Multi Busbar Technology
Maximum Efficiency up to 22.9%
Lower annual attenuation, better photoelectric
Strict selection of encapsulation materials eliminates PID risk

625W



12 Years Product Warranty
30 Years Linear Power Warranty

Solar Panel SERIES

Solar System Solution



Electrical Parameter
(STC)

Model	ESS-GPP625
Maximum power (W)	625
Working point voltage (V)	46.3
Workingpoint current (A)	13.50
Open circuit voltage (v)	55.3
Short circuit current (A)	14.25
PV module efficiency	22.36%
Standard test conditions	AM1.5, Irradiance 1000w/m ² , Cell Temperature 25°C



Mechanical Parameters

Module size	2465*1134*30mm
Number of solar cells	156Cells(2*6*13)
Weight	33.2kg±5%
Junction Box	IP68, 3 diodes
Cables	4mm ² , +/-300mm/-:200mm(Customizable)
Front plate glass	2.0mm,Ultra white AR coated semi-toughened glass
Rearplate glass	2.0mm,semi-toughened glass
Static load on the front	5400Pa
Static load on the back	2400Pa



Temperature Parameter

NMOT	42±2°C
Maximum power(Pmax)	-0.30%/°C
Open circuit voltage(Voc)	-0.25%/°C
Short circuit current(Isc)	+0.045/°C



Maximum Ratings

Working temperature	-40~+85°C
Maximum system voltage	1500VDC
Maximum fuse rated current	30A

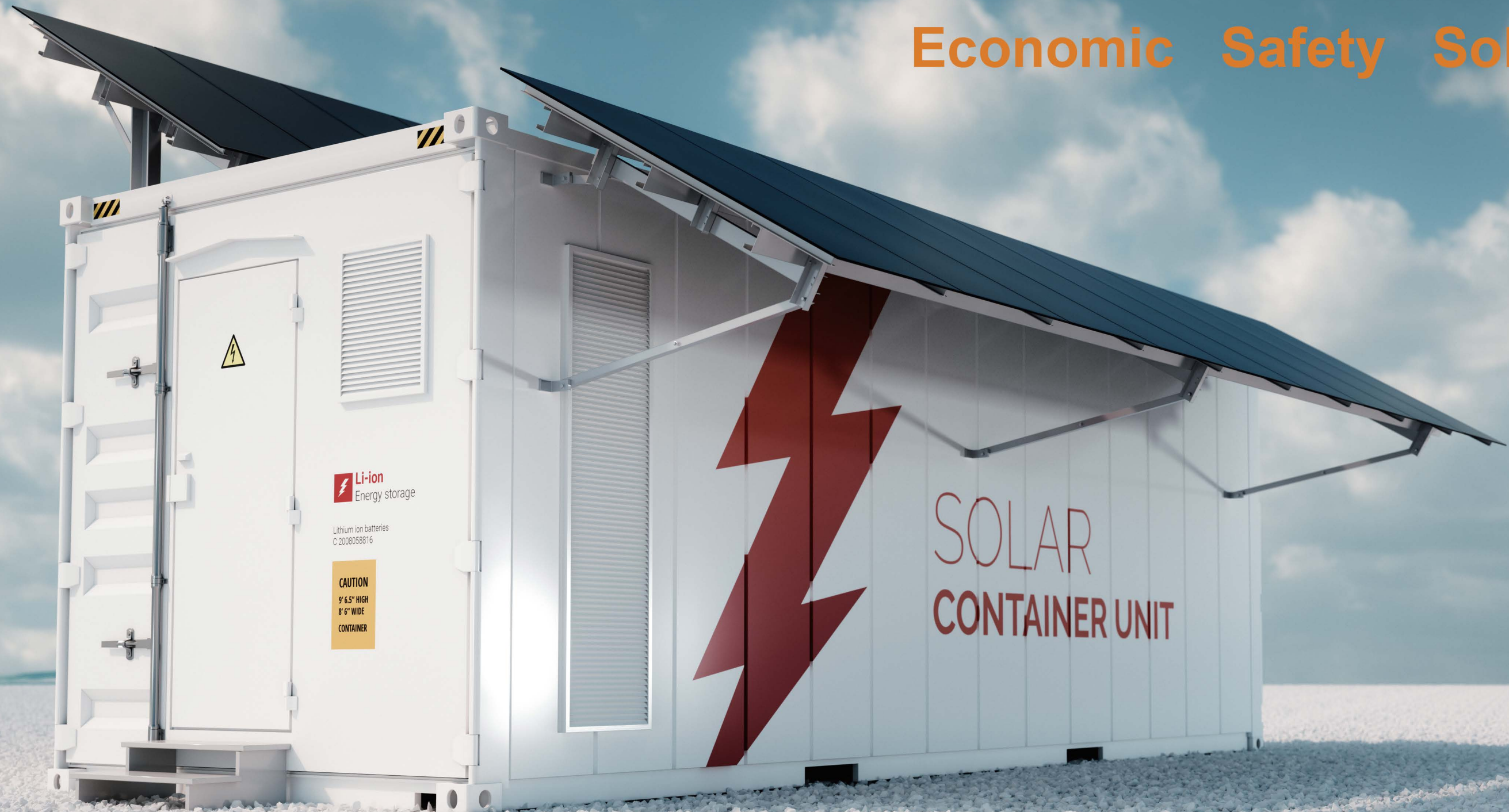


Packaging&Transport

Box Quantity	36 Pcs/box
Container	40'HQ
Container Quantity	576 Pcs(18 boxes)

GeePower ESS

Economic Safety Solution



GEEPOWER NEW ENERGY TECHNOLOGY CO.,LTD

WhatsApp/WeChat/Tel: +86 13790277376

E-mail: Info@geebattery.com

Web: www.geepoweress.com