CHISAGE ESS
RESIDENTIAL AND C&I ENERGY STORAGE SYSTEMS

CHISAGE ESS

EU version | V2.5.9.22

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CHISAGE ESS O□cial Website

LEADING THE INNOVATION OF ENERGY

WHO IS CHISAGE ESS

CHISAGE ESS relying on the industrial chain advantages of Chisage Group and the professional R&D team led by domestic and foreign doctors, actively explores the energy storage business and services, and tries its best to promote the "integration of generation, grid, loading and storage" projects and the "photovoltaic+energy storage" on/off-grid solutions for residential and C&I.

The company has invested in large-scale factories, and has crafted products such as hybrid inverters, lithium battery packs, all-in-one ESS, container ESS, etc.

Its business footprints in more than 60 countries and regions around the world, and it has set up offices, warehousing institutions and after-sales centers in Germany, Poland, Italy, Dubai, South Africa and other places to promote the brand's international development and help the global energy reform process.

6, 000+	4.5+	60+	100,000+	3
EMPLOYEES	BILLION USD TURNOVER	CUSTOMER COUNTRIES	INVERTER ANNUAL PRODUCTION CAPACITY	BATTERY ANNUAL PRODUCTION CAPACITY(GWh)

GLOBAL MARKETING SERVICE NETWORK

25 Years in the Top 500 Private Enterprise

1
Headquarter
China

55+
Sales Countries
Vietnam, Philippines, Indonesia, Thailand, Myanmar, Cambodia, Pakistan, UAE, Iraq, Lebanon, Yemen, Syria, Saudi Arabia, Jordan, Turkey, India, Afghanistan, Israel, Sri Lanka, Madagascar, South Africa, Nigeria, Mali, Senegal, Ghana, Benin, Guinea, Kenya, Germany, Poland, Czech Republic, Italy, Hungary, Lithuania, Spain, Ukraine, Greece, Romania, Serbia, Austria, Chile, Brazil, Argentina, China, Slovakia, Slovenia, Laos, Qatar, Palestine, Sudan, South Sudan, Morocco, Rwanda, Moldova, Moldova

10
Branch Offices
Poland, Hungary, Italy, UAE, Nigeria, South Africa, Brazil, Iraq, Singapore, Myanmar

13
After Sales Centers
Poland, Greece, Italy, UAE, Iraq, Lebanon, Nigeria, Yemen, Syria, Vietnam, Brazil, Myanmar, South Africa

FIVE EU WAREHOUSES UNITED
RAPID DELIVERY GUARANTEED

5

WAREHOUSES

SHIP AT ANY TIME

Sokołowska

Sokołowska 45D,
05-806 Sokołów, Warsaw

Kobierzyce

Ryszarda Comicza 17,55-040
Bielany Wroclawskie,Poland

Rotterdam

DVR Warehousing B.V.
Wolgaweg 7, DC 3
3198 LR Europoort-Rotterdam
Opening hours:
Mo-Fri 08:00-16:00

Warszawa

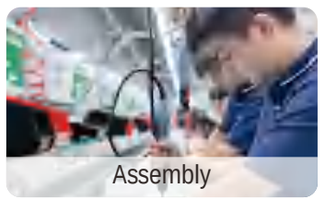
Magazyn Warszawa (Pruszków)
Park Logistyczny Panattoni
ul. Parzniewska 1805-800 Pruszków

Łódź

Magazyn Łódź
Panattoni Central European Logistics Hub
Ul.Jędrzejowska 47 93-636 Łódź

INTRODUCTION TO INVERTER PRODUCTION LINE


Preelaboration


Assembly


Test1


Packaging

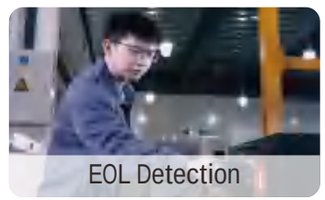

Test2


Aging Test

- The design and development of the PCB boards and software are completed by our R&D team.
- After incoming material inspection, pre-assembly of PCB boards will be conducted. Once online, each worker assembles according to the SOP manual, with three tests conducted during the process.
- The T1 test checks basic parameters such as input voltage range, frequency, and power factor.
- This is followed by an Aging test, where the inverter is placed in an environment of 40±5°C with an 80%-100% load, running for 6/9/24 hours to check the stability of the product's operation.
- Finally, the T2 test is conducted to detect any changes in parameters; all tests are carried out by the automated production line.
- After cleaning and leak testing, all packaging is completed by the automated production line.

INTRODUCTION TO BATTERY PRODUCTION LINE


Pack Assembly


EOL Detection


OCV Detection

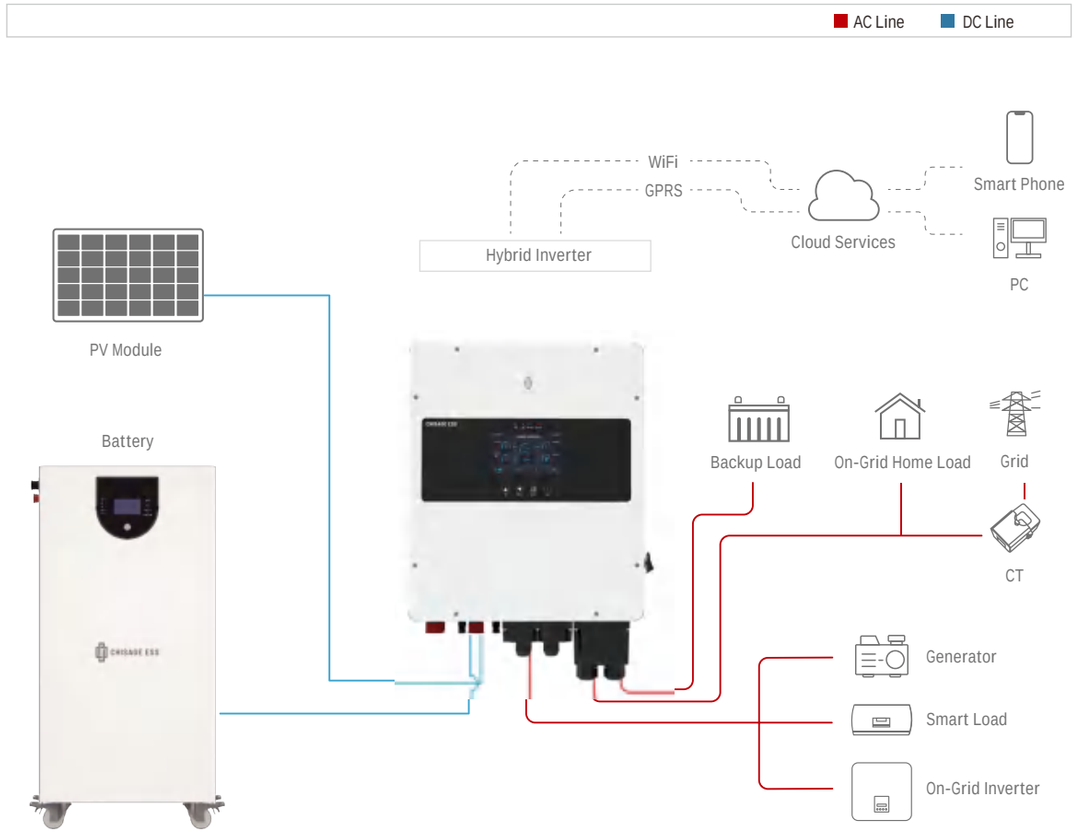

Warehouse


Workshop

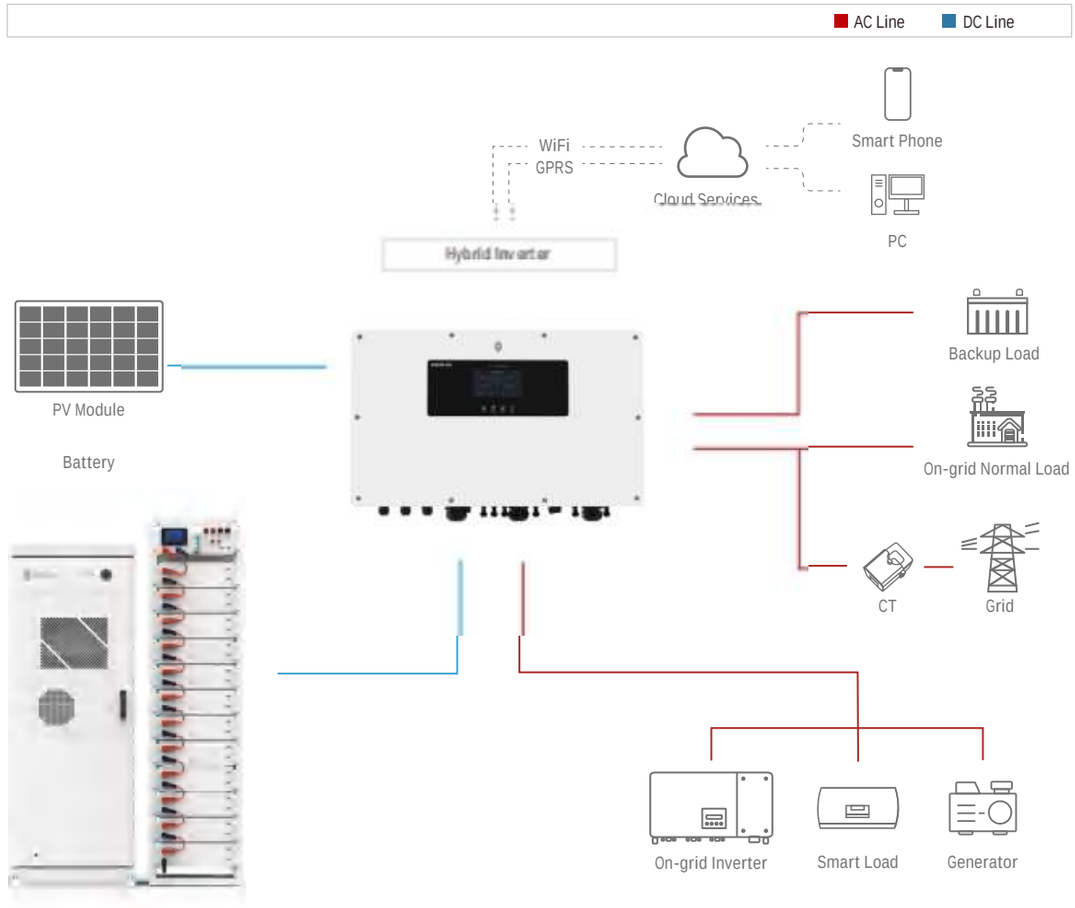

Laser Welding

- The battery production line features Eve A+ brand cells.
- Robotic arms automatically sort and stack the cells online, followed by laser cleaning.
- Subsequently, German IPG YLS4000/2000-AMB machines are utilized for automatic laser welding. After welding, a visual inspection is conducted.
- The subsequent assembly is subjected to a series of tests, including Tensile strength test, open loop test, full load test, air tightness test, etc.

SOLAR HYBRID RESIDENTIAL SYSTEM



SOLAR HYBRID C&I SYSTEM



SOLAR KITS

OFF-GRID INVERTER

CE4850-EU-80-H

+

BATTERY PACK

10kWh | MOON10-W

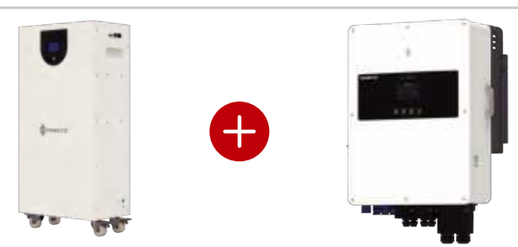
HYBRID INVERTER

Jup-5/6/8/10G2-LE

+

BATTERY PACK

16kWh | MOON16-G Pro



HYBRID INVERTER

Mars-5/6/8/10/12/14G2-LE

+

BATTERY PACK

5kWh/10kWh | CE48100-W/ CE48200-W

HYBRID INVERTER

Merc-20/25/29.9/30/35/40/ 50/60G1-HE

+

BATTERY PACK

40/60 kWh | CAL40/60-RH

More than these! Welcome to create the best solutions for your senario.

SCAN THE QR CODE TO VIEW THE CATALOG

PROJECT REFERENCE

Application:
Inverter – Jup-10G2-LE
Lithium Battery – CE48200-W*2

Time: Mar, 2025
Address: Poland
Capacity: 10kW/20kWh

Application:
Inverter – Mars-14G2-LE
Lithium Battery – CE48200-W

Time: Sep, 2024
Address: Greece
Capacity: 14kW/10kWh

Application:
Inverter – Mars-14G2-LE
Lithium Battery – Moon16-G Pro

Time: Mar, 2025
Address: Poland
Capacity: 84kW/272kWh

Application:
Inverter – Merc-50G1-HE
Lithium Battery – CAL60-RH

Time: Jul,2025
Address: Portugal
Capacity: 50kW/60kWh

Application:
Inverter – Mars-14G2-LE
Lithium Battery – Moon16-G Pro*2

Time: Jun, 2025
Address: Germany
Capacity: 14kW/32kWh

Application:
Inverter – Merc-60G1-HE
Lithium Battery – CAL60-RH*2

Time: Aug, 2025
Address: Germany
Capacity: 60kW/120kWh

CE4850-EU-80-H SERIES

5.5kW

MAX. PV INPUT CURRENT
18A

MAX. EFFICIENCY
＞92%

MAX. PV INPUT POWER
5.2kW

MAX. BATTERY CHARGING/DISCHARGING CURRENT
80A

PRODUCT FEATURE

- Power saving function
- High PV input voltage
- Multiple safety protection
- Pure sine wave AC output
- Uninterrupted power supply
- Intelligent speed control fans
- LCD screen and LED indicator lights
- Approved CE-LVD, CE-EMC certifications
- Grid power bypass and inverter output modes
- Support grid and PV activated lithium batteries
- Support a wide range of battery technology
- Support lead-acid and lithium battery connections

Technical Data

Model	CE4850-EU-80-H
AC Charge	
Battery Type	Lithium-ion/Lead-acid/User Define
Max. AC Charge Current (A)	60
Charge Voltage Range (Vdc)	40~60
Short Circuit Protection	Circuit breaker and blown fuse
Circuit Breaker Specifications (A)	40
Solar Charge	
Max. PV Open Circuit Voltage (Vdc)	500
MPPT Voltage Range (Vdc)	120~450
Battery Voltage Range (Vdc)	40~60
Max. PV Input Power (W)	5,200
Max. PV Input Current (A)	18
Max. PV Charge Current (A)	80
Max. Hybrid Charge Current (A)	80
Charge Short Circuit Protection	Blown fuse
Wiring Protection	Inverse wiring protection
AC Input	
Rated Input Voltage (Vac)	220/230
Input Voltage Range (Vac)	UPS: (170~280) ±2%, APL: (90~280)±2%
Frequency (Hz)	50/60 (Auto sensing)
Frequency Range (Hz)	47±0.3~55±0.3 (50)/57±0.3~65±0.3 (60)
Overload/short Circuit Protection	Breaker
Efficiency	>95%
Conversion Time (bypass and inverter)	10ms (Typical value)
AC Reverse Protection	yes
Max. Bypass Overload Current (A)	40
AC Output	
Output Voltage Waveform	Pure sine wave
Rated Output Power (W)	5,000(4,350/4,500/4,750/5,000)
Power Factor	1
Rated Output Voltage (Vac)	230(200/208/220/240 settable)
Output Voltage Error	±5%
Output Frequency Range (Hz)	50±0.3/60±0.3
Max. Efficiency	>92%
Overload Protection	(102% < load <125%) ±10%: report error and turn off the output after 5 minutes (125% < load < 150%) ± 10%: report error and turn off the output after 10 seconds Load >150% ±10%: report error and turn off the output after 5 seconds
Peak Power (VA)	10,000
Loaded Motor Capacity (HP)	4
Output Short Circuit Protection	Breaker
Bypass Breaker Specifications (A)	40
Rated Battery Input Voltage (Vdc)	48 (Min. starting voltage 44)
Battery Voltage Range (Vdc)	40.0~60±0.6 (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery settable on LCD screen)
No Load Loss (W)	Non Energy-saving Mode: ≤50W, Energy-saving Mode: ≤25W
General	
Certification	IEC62109, EN61000
Operation Temperature Range (°C)	-15~55
Storage Temperature Range (°C)	-25~60
Humidity Range	5%~95% (Conformal coating protection)
Noise (dB)	≤60
Heat Dissipation	Forced air cooling, variable speed of fan
Communication Interface	USB/RS485/dry node control
Size (mm)	426L×322W×126D
Weight (kg)	10.9

VENUS G1 SERIES

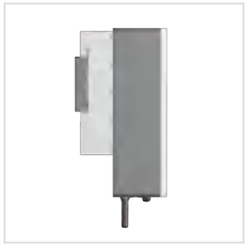
3kW/3.6kW/4kW/ 5kW/ 6kW/6.5kW

MAX. PV INPUT CURRENT
18A+18A

MAX. EFFICIENCY
＞97.60%

MAX. PV INPUT POWER
9.75kW

MAX. BATTERY CHARGING/DISCHARGING CURRENT
147.5A



PRODUCT FEATURE

- Support different power inverters parallel connection
- Up to 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- IP65 protection degree
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

Technical Data

Model	Ven-3G1-LE	Ven-3.6G1-LE	Ven-4G1-LE	Ven-5G1-LE	Ven-6G1-LE	Ven-6.5G1-LE
Battery Input Data						
Battery Type	Lead-acid or Li-ion					
Battery Voltage(V)	48(40V-60V)					
Battery Charge/Discharge Current(A)	60	75	85	110	135	147.5
Charging Strategy for Li-Ion	Self-Adaption to BMS					
PV Input Data						
Max.PV Input Power(W)	4500	5400	6000	7500	9000	9750
Max.PV Input Voltage(V)	500					
Start-up Voltage(V)	125					
PV Input Voltage Range (V)	370 (125-500)					
MPPT Input Range(V)	150-425					
Max Operating PV Input Current(A)	18+18	18+18	18+18	18+18	18+18	18+18
Max.PV Input Short-Circuit Current(A)	27+27	27+27	27+27	27+27	27+27	27+27
No.of MPPT Trackers/ No.of Strings per MPPT Tracker	2/1+1					
AC Input/Output Data						
Rated AC Input/Output Active Power(W)	3000	3600	4000	5000	6000	6500
Max. AC Input/Output Apparent Power(W)	3300	3960	4400	5500	6600	7150
Peak Power (off-grid)(W)	2 times of rated power, >10S					
Rated AC Input/Output Current(A)	13.6/13	16.4/15.7	18.2/17.4	22.7/21.7	27.3/26.1	28.3/29.5
Max. AC Input/Output Current(A)	15/14.3	18/17.2	20/19.1	25/23.9	30/28.7	32.5/31.1
Max.Continuous AC Passthrough(grid to load) (A)	40	40	40	40	40	40
Rate Input/Output Voltage(V)	220/230					
Grid Connection Form	L+N+PE					
Rate Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz					
Power Factor Adjustment Range	0.8 leading-0.8 lagging					
Total Current Harmonic Distortion THDi	THD<3%(Linear load <1.5%)					
DC Injection Current	<0.5%In					
Efficiency						
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
MPPT Efficiency	99%					
Protection						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection					
PV ARC Fault Detection	Optional					
Output Over Voltage Protection	DC Type II/AC Type III					
Certification and Standards						
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC61727,G99,G98,VDE 0126-1-1,RD 1699,C10-11					
EMC/Safety Regulation	IEC/ED 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4					
General Data						
Operating Temperature Range(℃)	-45~60,＞45 Derating					
Cooling	Natural Cooling					
Noise(dB)	≤30					
Communication with BMS	CAN, RS485					
Weight (kg)	22.5					
Dimensions (mm)	350W×500H×256D					
Protection Degree	IP65					
Installation Style	Wall-mounted					

Single Phase Hybrid Inverter

JUP G2 SERIES

5/6/8/10kW

MAX. PV INPUT CURRENT
26A+26A

MAX. EFFICIENCY
＞97.90%

MAX. PV INPUT
15kW

MAX. BATTERY CHARGING/DISCHARGING CURRENT
210A

PRODUCT FEATURES

- Support different power inverters parallel connection
- Up to 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Colorful 5-inch touch LCD, IP65 protection degree
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- ARC fault detection optional

Technical Data

Model	Jup-5G2-LE	Jup-6G2-LE	Jup-8G2-LE	Jup-10G2-LE
Battery Input Data				
Battery Type	Lead-acid or Li-ion			
Battery Voltage Range (V)	40-60			
Max. Charge Current (A)	120	140	190	210
Max. Discharge Current (A)	120	140	190	210
Charging Curve	3 Stages/Equalization			
External Temperature Sensor	Optional			
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	7,500	9,000	12,000	15,000
PV Input Voltage (V)	370(125~500)			
MPPT Range (V)	150~425			
Start-up Voltage (V)	120			
PV Input Current (A)	26+26			
Max. PV Isc (A)	34+34			
No. of MPPT Trackers	2			
No. of String Per MPPT Tracker	2/2	2/2	2/2	2/2
AC Output Data				
Rated AC Output Power and UPS Power (W)	5,000	6,000	8,000	10,000
Max. AC Output Power (W)	6,000	7,200	9,600	12,000
Peak Power(off grid)	2 times of rated power, 10s			
AC Output Rated Current (A)	21.73	26.08	34.78	43.47
Max. AC Current (A)	26.08	31.3	41.73	52.17
Max. Continuous AC Passthrough (A)	50	50	50	60
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz/230Vac(single phase)			
Grid Type	single phase			
Current Harmonic Distortion	THD<3%(Linear load <1.5%)			
Efficiency				
Max. Efficiency	97.90%			
Euro Efficiency	97.00%			
MPPT Efficiency	99.90%			
Protection				
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection			
PV ARC Fault Detection	Optional			
Output Over Voltage Protection	DC Type II/AC Type III			
Certification and Standards				
Grid Regulation	CEI 0-21,VDE-AR-N 4105,NRS 097,IEC61727,G99,G98,VDE 0126-1-1,RD 1699,C10-11			
EMC/Safety Regulation	IEC/EN 62109-1 IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4			
General Data				
Operating Temperature Range(℃)	-45~60,＞45 Derating			
Cooling	Smart cooling			
Noise(dB)	≤45			
Communication with BMS	CAN, RS485			
Weight (kg)	34			
Dimensions (mm)	514W×665H×292D			
Protection Degree	IP65			
Installation Style	Wall-mounted			

Three Phase Hybrid Inverter

MARS G2 SERIES

5/6/8/10/12/14kW

MAX. PV INPUT CURRENT
26A+17A

MAX. EFFICIENCY
＞97.90%

MAX. PV INPUT
20kW

MAX. BATTERY CHARGING/DISCHARGING CURRENT
280A

PRODUCT FEATURES

- Support different power inverters parallel connection
- Up to 20 PCS inverters parallel for off-grid operation
- Support on/off grid mode switch, EPS output
- Support storing energy from diesel generator
- ARC fault detection optional
- Colorful 7-inch touch LCD, IP65 protection degree
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- 100% unbalanced output each phase max.output up to 5kW

Technical Data

Model	Mars-5G2-LE	Mars-6G2-LE	Mars-8G2-LE	Mars-10G2-LE	Mars-12G2-LE	Mars-14G2-LE
Battery Input						
Battery Type	Lead-acid or Li-ion					
Battery Voltage Range (V)	40-60					
Max. Charge Current (A)	120	130	200	220	250	280
Max. Discharge Current (A)	120	130	200	220	250	280
Charging Curve	3 Stages/Equalization					
External Temperature Sensor	Optional					
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS					
PV String Input						
Max. DC Input Power (W)	7,500	9,000	12,000	15,000	18,000	20,000
PV Input Voltage (V)	650(160~800)					
MPPT Range (V)	200~700					
Full Load DC Voltage Range (V)	260~650					
Start-up Voltage (V)	160					
PV Input Current (A)	26+17					
Max. PV Isc (A)	34+20					
No. of MPPT Trackers	2					
No. of Strings per MPPT Trackers	2/1	2/1	2/1	2/1	2/1	2/1
AC Output						
Rated AC Output and UPS Power (W)	5,000	6,000	8,000	10,000	12,000	14,000
Max. AC Output Power (W)	5,500	6,600	8,800	11,000	13,200	15,400
Peak PoWer(off grid)	2 times of rated power, 10s			18000W, 10s		
AC Output Rated Current (A)	7.3	8.7	11.6	14.5	17.4	20.3
Max. AC Current (A)	10.8	13	17.4	21.7	26	26
Max. Continuous AC Passthrough (A)	26	26	26	26	26	26
Power Factor	0.8 leading to 0.8 lagging					
Output Frequency and Voltage (V)	50/60Hz, 230/400Vac(Triple phase)					
Grid Type	Three phase					
Current Harmonic Distortion	THD<3%(Linear load<1.5%)					
Efficiency						
Max. Efficiency	97.90%					
Euro Efficiency	97.00%					
MPPT Efficiency	99.90%					
Protection						
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection					
PV ARC Fault Detection	Optional					
Output Over Voltage Protection	DC Type II/AC Type III					
Certifications and Standards						
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11					
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2					
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4					
General Data						
Operating Temperature Range (℃)	-45~60, >45 Derating					
Cooling	Smart Cooling					
Noise (dB)	≤45					
Communication with BMS	CAN, RS485					
Weight (kg)	38	40	42	44	44	45
Dimensions (mm)	550W×730H×290D					
Protection Degree	IP65					
Installation Style	Wall-mounted					

High Voltage Three-Phase Inverter

MERC SERIES

20/25/29.9/30/35/40/50/60kW

MAX. PV INPUT CURRENT
36A+36A+36A+36A+36A

MAX. EFFICIENCY
＞97.60%

MAX. PV INPUT
78kW

MAX. BATTERY CHARGING/DISCHARGING CURRENT
60A+60A

PRODUCT FEATURES

- Up to 20 PCS inverters parallel for off-grid operation
- High battery charging/discharging current up to 120A
- Support on/off-grid mode switch, EPS output
- Colorful touch LCD, IP65 protection degree
- Support battery charging/discharging according to the time setting
- Independent AC input port for diesel generator
- Support storing energy from diesel generator
- High PV input current up to 18A

Technical Data

Model	Merc-20G1A-HE	Merc-25G1A-HE	Merc-29.9G1A-HE	Merc-30G1A-HE	Merc-35G1A-HE	Merc-40G1A-HE	Merc-50G1A-HE	Merc-60G1A-HE
Battery Input								
Battery Type	Lead-acid or Li-ion							
Battery Voltage Range (V)	160~800							
Max. Charging/Discharging Current (A)	60+60							
Max. Charging/Discharging Power (kW)	22	27.5	29.9	33	38.5	44	55	62.5
Charging Curve	3 Stages/Equalization							
Number of Battery input	2							
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS							
PV String Input								
Max. DC Input Power (kW)	30	37.5	44.85	45	52.5	60	75	90
PV Input Voltage (V)	600(150~900)							
MPPT Range (V)	150~850							
Start-up Voltage (V)	180							
PV Input Current (A)	3*36				4*36		5*36	
Max. PV Isc (A)	3*55				4*55		5*55	
No. of MPPT Trackers	3				4		5	
No. of Strings per MPPT Trackers	2/2/2				2/2/2/2		2/2/2/2/2	
AC Output								
Rated AC Output and UPS Power (kW)	20	25	29.9	30	35	40	50	60
Max. AC Output Power (kW)	22	27.5	29.9	33	38.5	44	55	66
Peak Power(off grid)(kW)	1.5 times of rated power, 10s							
AC Output Rated Current (A)	30.3/29.0	37.9/36.2	45.4/43.4	45.5/43.5	53.1/50.8	60.7/50.8	75.8/72.5	90.9/87.0
Max. AC Current (A)	33.3/31.9	41.7/39.8	45.4/43.4	50/47.9	58.4/55.8	66.7/63.6	83.4/79.8	100/95.8
Max. Continuous AC Passthrough (A)	100		200					
Output Frequency and Voltage (V)	50/60Hz, 230/400Vac, 220/380							
Grid Type	Three phase							
Current Harmonic Distortion	THD<3%							
Efficiency								
Max. Efficiency	97.60%							
Euro Efficiency	97.00%							
MPPT Efficiency	>99%							
Protection								
Integrated	PV Input Lightning Protection, Anti-Islanding Protection,PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection							
PV ARC Fault Detection	Optional							
Output Over Voltage Protection	DC Type II/AC Type III							
Certifications and Standards								
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11							
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2							
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4							
General Data								
Operating Temperature Range (℃)	-45~60, >45 Derating							
Cooling	Smart Cooling							
Noise (dB)	≤65							
Communication with BMS	CAN, RS485							
Weight (kg)	109.3							
Dimensions (mm)	976W×665H×371D							
Protection Degree	IP65							
Installation Style	Wall-mounted							

Battery Pack

MOON5-R Pro

5kWh

NOMINAL CAPACITY
100Ah

MAX. PARALLEL QUANTITIES
15 PCS

MAX. CONTINUOUS CHARGING/DISCHARGING CURRENT
50A/100A

CYCLE LIFE
>6000 CYCLES (25°C, 0.5C/0.5C)




PRODUCT FEATURES

- Max. 1C output current
- Up to 15 packs can be parallel connected
- With circuit breaker controlled by BMS
- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- High usable energy ratio, less self-consumption

Technical Data

Model	MOON5-R Pro
Nominal Energy (Wh)	5120
Nominal Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	44.8~57.6
Recommend Charge Current (A)	50
Max. Continuous Charge Current (A)	50
Recommend Discharge Current (A)	50
Max. Continuous Discharge Current (A)	100
Max. Parallel Quantities (pcs)	15
Operation Temperature	Charge Temperature: 0~55°C Discharge Temperature: -20~55°C
Operation Humidity	20~80%RH (No condensing)
Protection Degree	IP21
Dimension (mm)	420Wx134.5Hx550D (Without ear and handle)
Net Weight (kg)	45
Installation	Rack mounted
Certification	IEC62619,CE-EMC, ROHS, UN38.3
Communication	CAN, RS485
Cycle Life	6000≥90%DOD, 70%EOL@25°C/0.5C

Battery Pack

CE48100-W/CE48200-W

5kWh/10kWh

NOMINAL CAPACITY
100Ah/200Ah

MAX. PARALLEL QUANTITIES
15 PCS

MAX. CONTINUOUS CHARGING/DISCHARGING CURRENT
50A/100A, 100A/100A

CYCLE LIFE
>6000 CYCLES (25°C, 0.5C/0.5C)

CE48100-W

CE48200-W

PRODUCT FEATURES

- IP65 protection degree
- Support max. 15pcs batteries in parallel
- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- High usable energy ratio, less self-consumption

Technical Data

Model	CE48100-W	CE48200-W
Nominal Enegy(Wh)	5,120	10,240
Nominal Capacity (Ah)	100	200
Nominal Voltage (V)	51.2	
Operation Voltage Range (V)	44.8~57.6	
Recommend Charge Current (A)	50	100
Max. Continuous Charge Current (A)	50	100
Recommend Discharge Current (A)	50	100
Max. Continuous Discharge Current (A)	100	
Max. Parallel Quantities (pcs)	15	
Operation Temperature	Charge Temperature: 0~55°C Discharge Temperature: -20~55°C	
Operation Humidity	20~95%RH (No condensing)	
Protection Degree	IP65	
Dimension (mm)	480Wx168Dx650H (Without floor mount foot)	612Wx168Dx920H (Without floor mount foot)
Net Weight (kg)	50±5	94±5
Installation	Wall mounted, floor mounted	
Certification	IEC62619,CE-EMC, ROHS, UN38.3	
Communication	CAN, RS485	
Cycle Life	6000≥90%DOD, 70%EOL@25°C/0.5C	

Battery Pack

MOON5/10-W

5/10kWh

NOMINAL CAPACITY
200Ah

MAX. PARALLEL QUANTITIES
15 PCS

MAX. CONTINUOUS CHARGING/DISCHARGING CURRENT
100A/150A

CYCLE LIFE
≥6000 CYCLES (25°C, 0.5C/0.5C)




PRODUCT FEATURES

- Max. 0.75C output current
- LCD display and support bluetooth connection
- Up to 15 packs can be parallel connected
- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- High usable energy ratio, less self-consumption

Technical Data

Model	MOON5-W	MOON10-W
Nominal Energy (Wh)	5,120	10,240
Nominal Capacity (Ah)	100	200
Nominal Voltage (V)	51.2	
Operation Voltage Range (V)	44.8~57.6	
Recommend Charge Current (A)	50	100
Max. Continuous Charge Current (A)	50	100
Recommend Discharge Current (A)	50	100
Max. Continuous Discharge Current (A)	100	150
Max. Parallel Quantities (pcs)	15	
Operation Temperature	Charge Temperature: 0~55°C Discharge Temperature: -20~55°C"	
Operation Humidity	20~80%RH (No condensing)	
Protection Degree	IP21	
Dimension (mm)	415Wx661Hx185D (Without floor mount foot)	600Wx822Hx187.5D (Without ear and handle)
Net Weight (kg)	48	92.5
Installation	Wall mounted, floor mounted	
Certification	IEC62619,CE-EMC, ROHS, UN38.3	
Communication	CAN, RS485	
Cycle Life	6000≥90%DOD, 70%EOL@25°C/0.5C	

Battery Pack

MOON16-G Pro

16kWh

NOMINAL CAPACITY
314Ah

MAX. PARALLEL QUANTITIES
15 PCS

MAX. CHARGING/DISCHARGING CURRENT
150A/150A

CYCLE LIFE
≥8000 CYCLES (25°C, 0.5C/0.5C)

PRODUCT FEATURE

- LCD display and support bluetooth connection
- Up to 15 packs can be parallel connected
- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- High usable energy ratio, less self-consumption

Technical Data

Model	MOON16-G Pro
Nominal Energy (Wh)	16076.8
Nominal Capacity (Ah)	314
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	44.8~57.6
Recommend Charge Current (A)	150
Max. Continuous Charge Current (A)	150
Recommend Discharge Current (A)	150
Max. Continuous Discharge Current (A)	150
Max. Parallel Quantities (pcs)	15
Operation Temperature	Charge Temperature: 0~60°C Discharge Temperature: -20~60°C
Operation Humidity	20~80%RH (No condensing)
Protection Degree	IP20
Dimension (mm)	420Wx800Hx250D (Without floor mount foot)
Net Weight (kg)	115
Installation	Wall mounted, floor mounted
Certification	IEC62619, CE-EMC, CE-RED, ROHS, UN38.3
Communication	CAN, RS485
Cycle Life	8000≥90%DOD, 70%EOL@25°C/0.5

Battery pack

Link (5-20) -L

5/10/15/20kWh

NOMINAL CAPACITY
100Ah~400Ah

MAX. PARALLEL QUANTITIES
4PCS MODULES

CYCLE LIFE
>6000 CYCLES (25°C, 0.5C/0.5C)

PRODUCT FEATURES

- Flexibility modular design, from 5kWh to 20kWh each battery tower
- IP65 protection degree
- Mounting handle design, easy lift and installation
- Quick connector and auto battery address setting, save installation time
- Independent BMS and SOC indicator for each module
- Safe LiFePO4 rechargeable battery
- Suitable for both indoor and outdoor installation

Technical Data

Model	Link5-L	Link10-L	Link15-L	Link20-L
Nominal Energy (Wh)	5,120	10,240	15,360	20,480
Nominal Capacity (Ah)	100	200	300	400
Nominal Voltage (V)	51.2			
Operation Voltage Range (V)	44.8~57.6			
Recommend Charge Current (A)	50	100	150	200
Max. Continuous Charge Current (A)	50	100	150	200
Recommend Discharge Current (A)	50	100	150	200
Max. Continuous Discharge Current (A)	50	100	150	200
Max. Parallel Quantities (pcs)	4 pcs Link5-L modules			
Operation Temperature	Charge Temperature: 0~55°C Discharge Temperature: -20~55°C			
Operation Humidity	20~95%RH (No condensing)			
Protection Degree	IP65			
Dimension (mm)	665Wx430D x478.8H	665Wx430D x687.6H	665Wx430D x932.4H	665Wx430D x1159.2H
Net Weight (kg)	60	120	180	240
Installation	Floor mounted			
Certification	IEC61000, IEC62619, UN38.3			
Communication	CAN, RS485			
Cycle Life	>6000 Cycles(25°C, 0.5C/0.5C)			

Lithium Battery Cluster System

CAL5-RH/CAL40/60-RH

40/60kWh

NOMINAL CAPACITY
100Ah

PARALLEL QUANTITIES
8/12PCS MODULES

MAX. CHARGING/DISCHARGING CURRENT
100A/100A

CYCLE LIFE
≥6000 CYCLES (25°C, 0.5C/0.5C)

PRODUCT FEATURES

- Longer life cycles
- Higher power density
- Max. 1C discharge current
- Higher usable energy ratio, less self-consumption
- Contains no toxic heavy metal or caustic materials
- Up to 4 clusters can be parallel connected
- Flexi bility modular design, from 30kWh to 60kWh each battery cluster

Technical Data

Model	CAL5-RH
Connection Style	16S
Nominal Energy (Wh)	5,120
Nominal Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	44.8~57.6
Recommend Charge Current (A)	50
Max. Discharge Current (A)	50
Recommend Discharge Current (A)	50
Max. Continuous Discharge Current (A)	100
Operation Temperature	Charge Temperature: 0°C~60°C Discharge Temperature: -20~60°C
Operation Humidity	20~80%RH (No condensing)
Protection Degree	IP20
Dimension (mm)	416W x 136H x 546D (Without ear and handle)
Net Weight (kg)	45
Installation	Rack mounted
Certification	/
Communication	Cascade
Cycle Life	6,000≥80%DOD, 70%EOL@25℃/0.5C

Model	CAL40-RH	CAL60-RH
Connection Style	128S	192S
Nominal Energy (kWh)	40.96	61.44
Nominal Capacity (Ah)	100	
Nominal Voltage (V)	409.6V	614.4
Operation Voltage Range (V)	358.4~460.8	537.6~691.2
Recommend Charge Current (A)	50	
Max. Continuous Charge Current (A)	50	
Recommend Discharge Current (A)	50	
Max. Continuous Discharge Current (A)	100	
Max. Parallel Quantities (system)	4	
Operation Temperature	Charge Temperature: 0°C~60°C Discharge Temperature: -20~60°C	
Operation Humidity	20~80%RH (No condensing)	
Protection Degree	IP20	
Dimension (mm)	520W x 2,070H x 566D	
Net Weight (kg)	424	618
Certification	IEC62619, CE-EMC, LVD, ROHS, UN38.3	
Communication	CAN, RS485	
Cycle Life	6,000≥80%DOD, 70%EOL@25°C/0.5C	

Lithium Battery Cabinet System

OBE70

70kWh

NOMINAL CAPACITY
100Ah

MAX. PARALLEL QUANTITIES (SYSTEM)
20 PCS

MAX. CONTINUOUS CHARGING/DISCHARGING CURRENT
100A/100A

CYCLE LIFE
≥6000 CYCLES (25°C, 0.5C/0.5C)

PRODUCT FEATURES

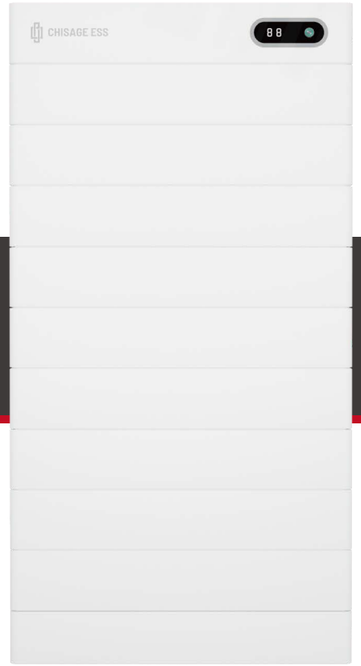
- Longer life cycles
- Higher power density
- Max. 1C discharge current
- Higher usable energy ratio, less self-consumption
- Contains no toxic heavy metal or caustic materials
- Up to 4 cabinets can be parallel connected
- Flexibility modular design, from 47kWh to 70kWh each battery cabinet

Technical Data

Model	OBE70
Connection series	216S
Nominal Energy (kWh)	69.12
Nominal Capacity (Ah)	100
Nominal Voltage (V)	691.2
Operation Voltage Range (V)	604.8~777.6
Recommend Charge Current (A)	100
Max. Continuous Charge Current (A)	100
Recommend Discharge Current (A)	100
Max. Continuous Discharge Current (A)	100
Max. Parallel Quantities (system)	20
Operation Temperature	Charge Temperature: 0°C~60°C Discharge Temperature: -20~60°C
Operation Humidity	20~80%RH (No condensing)
Protection Degree	IP54
Dimension (mm)	690W x 1,950H x 1,200D
Net Weight (kg)	1,045
Certification	IEC62619, CE-EMC, LVD, ROHS, IP54, UN38.3
Communication	CAN, RS485
Cycle Life	≥6,000 80%EOL@25ºC 1P

Lithium Battery Stack System

GAN7-SH
GAN30/38/46/53/61/69-SH



Product Features

- Ultra-high energy density, small size, and convenient installation and transportation
- Battery modules feature a wire-free design and support plug-and-play functionality
- Protection grade IP65, ultra-high environmental compatibility
- Intelligent temperature and voltage collection to ensure battery safety
- Convenient and fast operation and maintenance, supporting cloud OTA
- Battery module-level fire protection and heating （optional）

Technical Data

Model	GAN7-SH
Connection Style	24S
Nominal Energy (Wh)	7,680
Nominal Capacity (Ah)	100
Nominal Voltage (V)	76.8
Operation Voltage Range (V)	67.2~86.4
Recommend Charge Current (A)	50
Max. Continuous Charge Current (A)	50
Recommend Discharge Current (A)	50
Max. Continuous Discharge Current (A)	100
Operation Temperature	"Charge Temperature: 0ºC~55ºC Discharge Temperature: -25~55ºC"
Operation Humidity	0~95%RH (No condensing)
Protection Degree	IP65
Dimension (mm)	880(W)x385(H)x150(L)
Net Weight (kg)	65
Installation	Floor Mounted

Technical Data

Model	GAN30-SH	GAN38-SH	GAN46-SH	GAN53-SH	GAN61-SH	GAN69-SH
Stack Quantity	4	5	6	7	8	9
Nominal Energy (KWh)	30.72	38.4	46.08	53.76	61.44	69.12
Nominal Capacity (Ah)	100					
Nominal Voltage (V)	307.2	384	460.8	537.6	614.4	691.2
Operation Voltage Range (V)	268.8-345.6	336-432	403.2-518.4	470.4-604.8	537.6-691.2	604.8-777.6
Recommend Charge Current (A)	50					
Max. Continuous Charge Current (A)	50					
Recommend Discharge Current (A)	50					
Max. Continuous Discharge Current (A)	100					
Max. Parallel Quantities (system)	4					
Operation Temperature	Charge Temperature: 0ºC~55ºC Discharge Temperature: -20~55ºC					
Operation Humidity	20~95%RH (No condensing)					
Protection Degree	IP65					
Fire Protection System	Aerosol fire suppression device					
WiFi Module	Built-in wlfl module;app OTA function					
Dimension (mm)(L*W*H)	880x385x850	880x385x1000	880x385x1150	880x385x1300	880x385x1450	880x385x1600
Net Weight (kg)	295	360	425	490	555	620
Certification	IEC62619, CE-EMC, LVD, ROHS, UN38.3					
Communication	CAN, RS485					
Cycle Life①	≥8,000					

Note ①: Cycle Life 95%DOD, 70%EOL@25ºC/0.2C