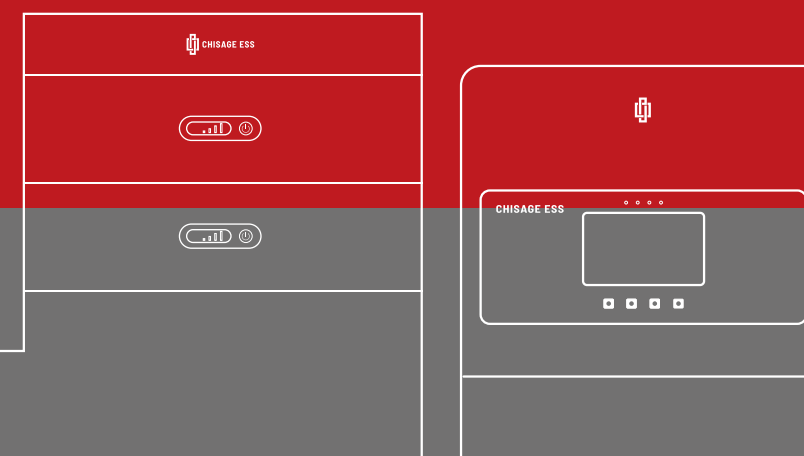




CHISAGE ESS PRODUCT CATALOG

Leading The Innovation Of Energy



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CHISAGE ESS

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**LEADING THE
INNOVATION OF ENERGY**

CONTENT

- 01/02 ▪ ABOUT CHISAGE ESS
- 03/04 ▪ VISION & MISSION & VALUE
- 05/06 ▪ CHISAGE PHYLOGENY
- 07/08 ▪ GLOBAL FOOTPRINTS
- 09/12 ▪ SOLAR PANEL
- 13/16 ▪ MICROINVERTER
- 17/38 ▪ ON GRID INVERTER
- 39/44 ▪ LOW VOLTAGE INVERTER
- 45/46 ▪ C&I HYBRID INVERTER
- 47/50 ▪ HIGH VOLTAGE HYBRID ALL IN ONE ESS
- 51/58 ▪ BATTERY PACK
- 59/66 ▪ C&I ESS
- 67/70 ▪ CONTAINER BESS
- 71/72 ▪ PORTABLE POWER STATION
- 73/74 ▪ CHISAGE ESS CLOUD
- 75/78 ▪ SYSTEM SOLUTION
- 79/80 ▪ PROJECT REFERENCE

ABOUT CHISAGE ESS

Chisage ESS is the holding subsidiary of Chisage group which was founded in **1998**. After over **25 years** of accumulation and growth, we have developed into a modern enterprise with more than **5,000 employees** and **4.5 Billion USD** in sales revenue. Our business range has been across seven major fields, including apparel, bulk commodity trade, consumer electronics, new materials and new energy, health, future life, and industrial investment.

The headquarter of Chisage ESS is located in Ningbo city with a sophisticated R&D engineering team for BMS and hybrid inverter technology. Now we have over **1.5GWh** manufacturing capacity for lithium iron phosphate battery packs and **1GW** for inverters.

Our main products include **residential inverters**, **battery packs**, **C&I hybrid inverters**, **portable power stations**, **all-in-one ESS cabinets**, and **container ESS**.

Chisage ESS values innovation and reliability and is dedicated to delivering the customers our best solutions.

CERTIFICATION



LEADING THE
INNOVATION OF
ENERGY

VISION & MISSION & VALUE



Vision

Leading the innovation of energy



Mission

Battery storage technology makes life better



Value

Customer first, Strivers in nature, Innovation continues

CHISAGE PHYLOGENY

2008

- **Sichuan Chisage New Material Technology Co., Ltd.** is a supplier engaged in electronic material, energy anode material, manganous-manganic oxide, high-purity manganese sulfate. It is one of the Aiding-Sichuan projects organized by Zhejiang merchants to achieve the post-disaster reconstruction and recovery of the livelihood and economy of Qingchuan after the May 12th earthquake.

1998

- **Ningbo U&K Fashion Co., Ltd.** was established, which was the predecessor of Ningbo Chisage Holdings Co., Ltd.

2014

- **Jiangsu Chisage Carbon Photonics Research and Development Center Co., Ltd.** was established, focusing on R&D, production and sales of new biomedical technologies as well as taking the lead in the green phototherapy field worldwide.

2017

- **Ningbo Chisage Resource Co., Ltd.** under Chisage Group was established, which focus on the business platform of bulk commodity trade.
- **Zhejiang Chisage Holding Group Co., Ltd.** was renamed Chisage Holding Group Co., Ltd.
- **Beijing Qunlitan Cheng Network Technology Co., Ltd.** became a subsidiary of Chisage Group and it is an innovation driven technological enterprise specializing in high-quality audio products.

2021

- **Zhejiang Jingyan Shenlan New Energy Technology Co., Ltd.** has become a member of the Chisage Group. The company is committed to the industrialization of high-power aqueous secondary electrolyte batteries and currently mainly promotes the low-speed forklift truck and the new energy storage power station.
- **Zhejiang Chisage New Energy Technology Co., Ltd.** is an energy storage + intelligent system solution integrator and investor. specializing in the integration of new aqueous batteries, packs, racks, and integration solutions.

FUTURE

- Along the way **CHISAGE** has been carrying forward her cause and forging ahead into the future. With customer orientation as the guidance, being striver in nature, the spirit of hard work and plain living as consistent pursuit, it is determined to be a group company on both industry and industrial investment area with ongoing value creation.

GLOBAL FOOTPRINTS

Lasted 25 Years Top 500 Private Enterprises

1998

Established

30+

Countries

4.5 Billion USD

Turnover





01

SOLAR PANEL

P09

CE390-27V-MH
CE395-27V-MH
CE400-27V-MH
CE405-27V-MH
CE410-27V-MH

P11

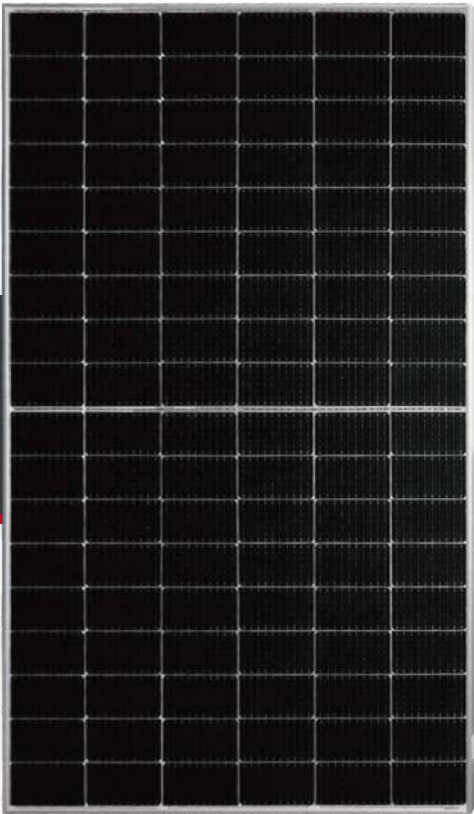
CE530-36V-MH
CE535-36V-MH
CE540-36V-MH
CE545-36V-MH
CE550-36V-MH

CHISAGE ESS

Solar Panel

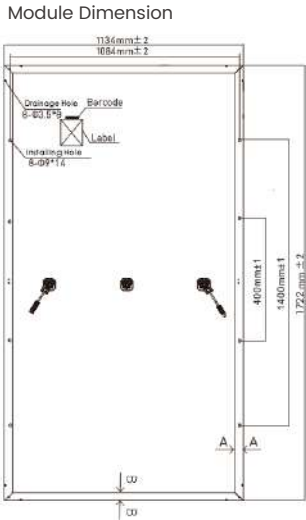
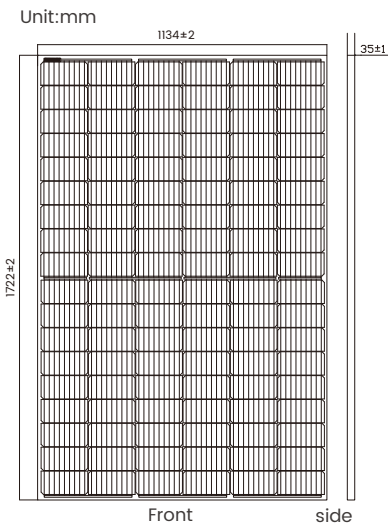
Monocrystalline solar panel built with half-cut cells

CE390-27V-MH CE405-27V-MH
CE395-27V-MH CE410-27V-MH
CE400-27V-MH



Product Features

- Highly reliable due to stringent quality control
- Fusion of MBB and half-cut cells technology
- Excellent Anti-PID performance
- Outstanding low light performance
- Special cutting and soldering technology leads to low hotspot risk



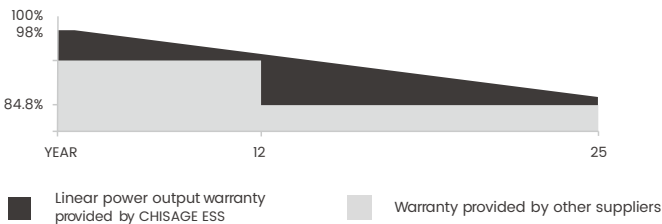
Specifications

Model	CE390-27V-MH	CE395-27V-MH	CE400-27V-MH	CE405-27V-MH	CE410-27V-MH
Nominal Peak Power (W)	390	395	400	405	410
Voltage at Nominal Peak Power (V)	30.76	30.98	31.18	31.38	31.59
Current at Nominal Peak Power (A)	12.69	12.76	12.83	12.91	12.98
Open-circuit Voltage (V)	36.62	36.84	37.04	37.24	37.45
Short-circuit Current (A)	13.59	13.66	13.73	13.80	13.88
Module Efficiency (%)	19.90	20.20	20.50	20.70	21.00
Power Tolerance (W)	0~+5				
Pmax Temperature Coefficient	-0.35%/°C				
Voc Temperature Coefficient	-0.27%/°C				
Isc Temperature Coefficient	+0.048%/°C				
Nominal Operating Cell Temperature (°C)	45±2				
Operating and Storage Temperature (°C)	-40~+85				
Standard Test Condition (STC)	1,000W/m²,AM1.5,25±2°C				

Mechanical Characteristics and Packing

Solar Cell Type	182×91 (Mono)
No. of Cells	108 (6×18)
Dimension (mm)	1,722×1,134×35
Weight (kg)	22.00
Front Glass	High transparency solar glass 3.2mm
Frame	Silver/black anodized aluminum alloy
Maximum System Voltage (V)	1,500
Maximum Series Fuse Rating Current (A)	25
Junction Box	IP68 with 3 diodes
Output Cable	4mm²×30cm cable, MC4 compatible connector included
Mechanical Load	Front side 5400Pa/Rear side 2,400Pa
20FT Container	6 pallets/186pcs
40HQ Container	26 pallets/806pcs

Warranty



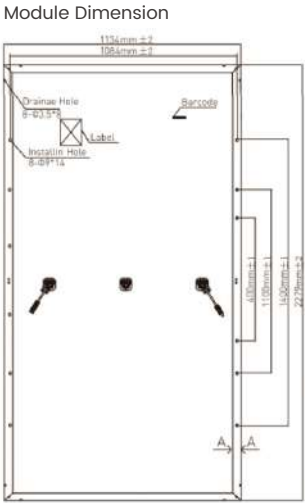
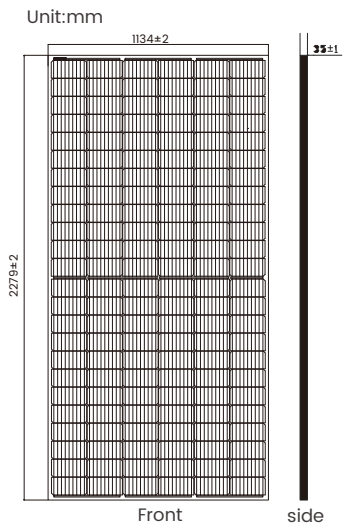
12 YEAR 12 years warranty on product material and workmanship

25 YEAR 25 years warranty on linear power output

Solar Panel

Monocrystalline solar panel built with half-cut cells

CE530-36V-MH CE545-36V-MH
CE535-36V-MH CE550-36V-MH
CE540-36V-MH



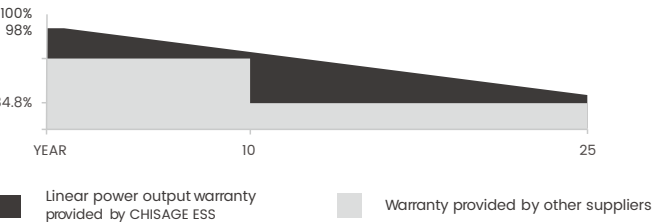
Specifications

Model	CE530-36V-MH	CE535-36V-MH	CE540-36V-MH	CE545-36V-MH	CE550-36V-MH
Nominal Peak Power (W)	530	535	540	545	550
Voltage at Nominal Peak Power (V)	40.74	40.88	40.01	41.15	41.28
Current at Nominal Peak Power (A)	13.01	13.09	13.17	13.24	13.32
Open-circuit Voltage (V)	49.26	49.40	49.53	49.67	49.80
Short-circuit Current (A)	13.69	13.77	13.85	13.93	14.01
Module Efficiency (%)	20.60	20.80	21.00	21.20	21.40
Power Tolerance (W)	0~+5				
Pmax Temperature Coefficient	-0.35%/°C				
Voc Temperature Coefficient	-0.27%/°C				
Isc Temperature Coefficient	+0.048%/°C				
Nominal Operating Cell Temperature (°C)	45±2				
Operating and Storage Temperature (°C)	-40~+85				
Standard Test Condition (STC)	1,000W/m², AM1.5, 25±2°C				

Mechanical Characteristics and Packing

Solar Cell Type	182×91 (Mono)
No. of Cells	144 (6×24)
Dimension (mm)	2,279×1,134×35
Weight (kg)	29.40
Front Glass	High transparency solar glass 3.2mm
Frame	Silver anodized aluminum alloy
Max. System Voltage (V)	1,500
Max. Series Fuse Rating Current (A)	25
Junction Box	IP68 with 3 diodes
Output Cable	4mm²×30cm cable, MC4 compatible connector included
Mechanical Load	Front side 5400Pa/Rear side 2,400Pa
20FT Container	5 pallets/155pcs
40HQ Container	20 pallets/620pcs

Warranty



10 YEAR 10 years warranty on product material and workmanship

25 YEAR 25 years warranty on linear power output

Product Features

- Highly reliable due to stringent quality control
- Fusion of MBB and half-cut cells technology
- Excellent Anti-PID performance
- Outstanding low light performance
- Special cutting and soldering technology leads to low hotspot risk



02

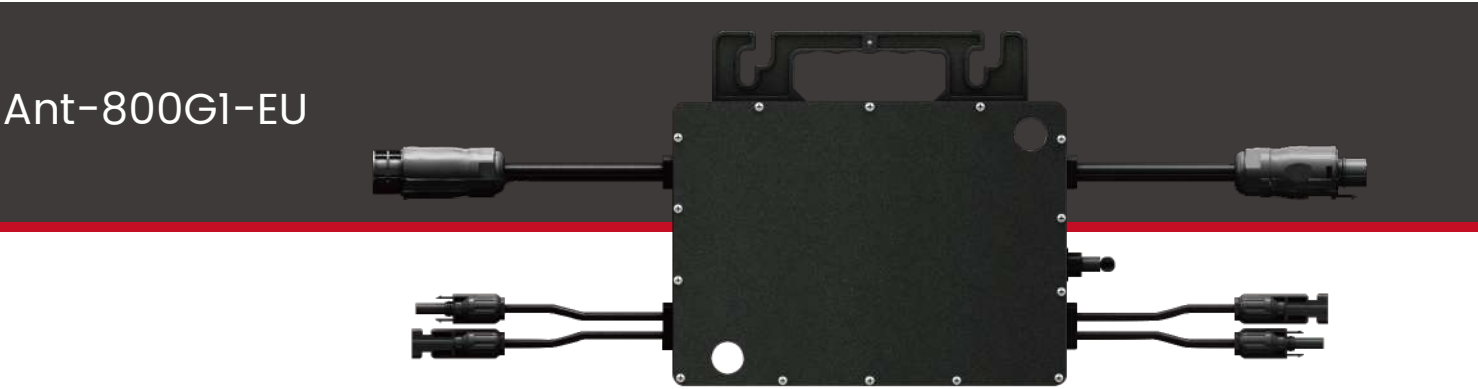
MICROINVERTER

P13 Ant-800G1-EU

P15 Ant-2000G1-EU

CHISAGE ESS

Microinverter



Product Features

- Individual MPPT tracking
- Cost-effective easy operation
- IP67 protection degree
- Remote WiFi monitor
- High reliability and efficiency up to 96%
- Support parallel operation

Technical Data	
Model	Ant-800G1-EU
Input (DC)	
Recommended Input Power (Wp)	210 to 500W+ (2 Pieces)
Max. Input DC Voltage (Vdc)	60
MPPT Voltage Range (Vdc)	20~55
Start-up Voltage (Vdc)	20
Max. Input Current (A)	13.5×2
Max. DC Short Circuit Current (A)	16.5×2
Output (AC)	
Rated Output Power (W)	800
Rated Output Current (A)	3.5
Nominal Grid Voltage (V)	230
Grid Voltage Range (V)	184~253
Nominal Frequency (Hz)	50
Frequency Range (Hz)	45~55
Power Factor	0.99(default),-0.95(lagging),+0.95(leading)
Maximum Units per Branch	4
Efficiency	
CEC Weighted Efficiency	95.50%
Peak Inverter Efficiency	96.00%
MPPT Track Efficiency	>99.50%
Night Time Power Consumption (mW)	<50
Mechanical Data	
Operation Temperature Range (°C)	-40~65
Dimension (mm)	260Wx225Hx32D
Weight (kg)	2.9
Cooling	Natural cooling
Noise (dB)	<15
Protection Degree	IP67
General	
Display	LED, APP
Communication	Built-in Wifi
Compliance	IEC 62109,IEC 61000,VDE4105
Warranty	10 years

Microinverter

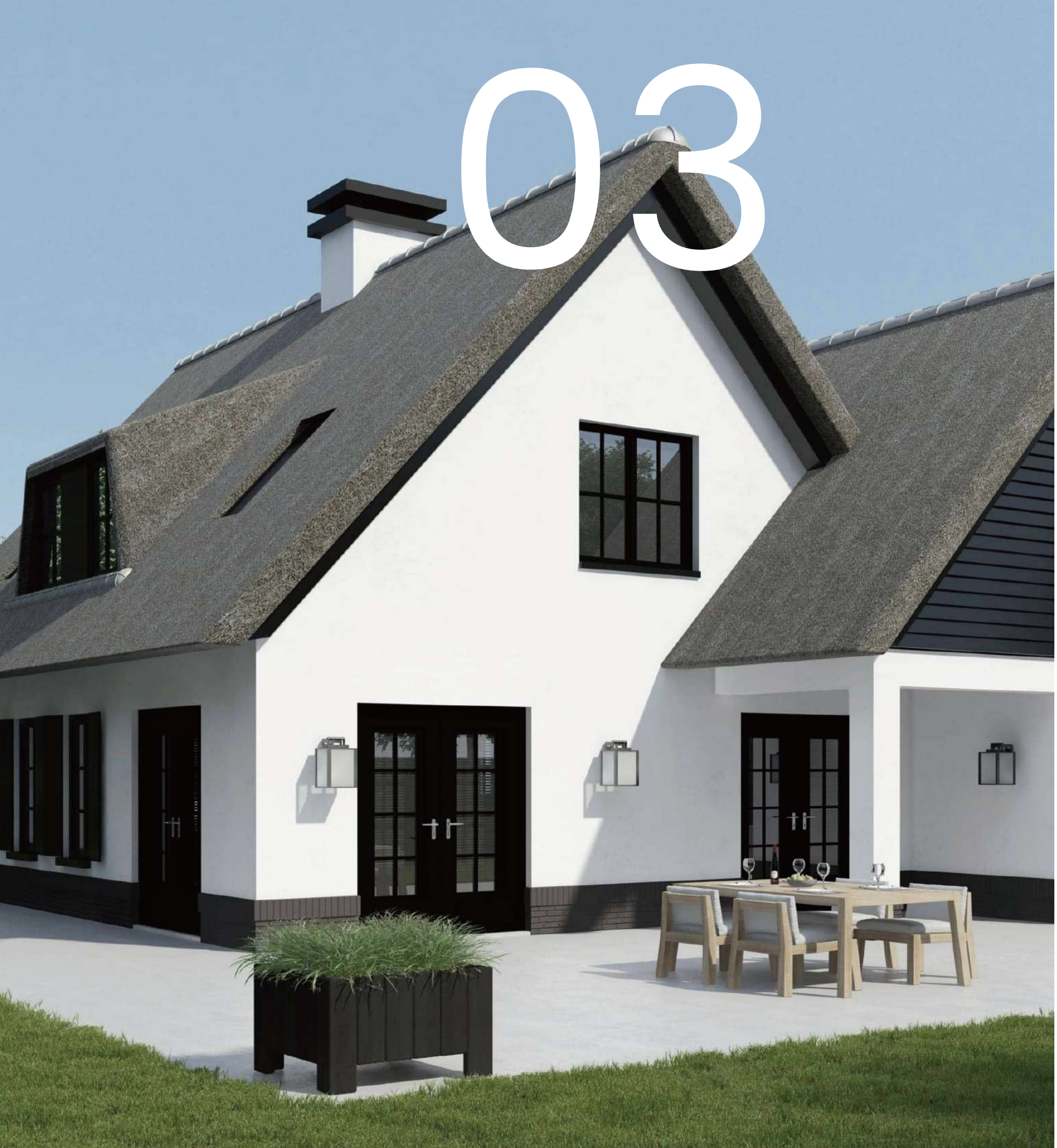
Ant-2000GI-EU



Product Features

- Individual MPPT tracking
- Cost-effective easy operation
- IP67 protection degree
- Remote WiFi monitor
- High reliability and efficiency up to 96.0%
- Support parallel operation

Technical Data	
Model	Ant-2000GI-EU
Input (DC)	
Recommended Input Power (Wp)	280 to 550W+ (4 Pieces)
Max. Input DC Voltage (Vdc)	60
MPPT Voltage Range (Vdc)	25~55
Start-up Voltage (Vdc)	20
Max. Input Current (A)	13.5×4
Max. DC Short Circuit Current (A)	16.5×4
Output (AC)	
Rated Output Power (W)	2,000
Rated Output Current (A)	9.1
Nominal Grid Voltage (V)	230
Grid Voltage Range (V)	184~253
Nominal Frequency (Hz)	50 / 60
Frequency Range (Hz)	45~55 / 55~65
Power Factor	0.99
Maximum Units per Branch	3
Efficiency	
CEC Weighted Efficiency	95.5%
Peak Inverter Efficiency	96.0%
MPPT Track Efficiency	>99%
Night Time Power Consumption (W)	< 50
Mechanical Data	
Operation Temperature Range (°C)	-40~65
Dimension (mm)	300W×280H×50D (Without mounting bracket and cable)
Weight (kg)	4.5
Cooling	Natural cooling
Noise (dB)	<15
Protection Degree	IP67
General	
Display	LED, APP
Communication	Built-in Wifi
Compliance	IEC 62109,IEC 61000,VDE4105
Warranty	10 years



03

ON GRID INVERTER

- | | |
|-----|---|
| P17 | CE-1P0.6/0.7/0.8/1/1.5KEG |
| P19 | CE-1P2/3.6KEG
CE-1P3/4KEG-Mini |
| P21 | CE-1P3/4/4.6/5/6KEG |
| P23 | CE-1P6KEG-Pro
CE-1P7/8/9/10KEG |
| P25 | CE-3P3/4/5/6KEG |
| P27 | CE-3P5/6KEG-Pro
CE-3P8/10KEG |
| P29 | CE-3P12/15/18/20KEG |
| P31 | CE-3P15/18/20/KEG-Pro
CE-3P22/25/30KEG |
| P33 | CE-3P40/50/60/75KEG |
| P35 | CE-3P75KEG-Pro
CE-3P80/100/110KEG |
| P37 | CE-3P125/136KEG |
-

CHISAGE ESS

Single Phase On Grid Inverter

CE-IP0.6/0.7/0.8/1/1.5KEG



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- ARC fault detection optional

Technical Data

Model	CE-IP0.6KEG	CE-IP0.7KEG	CE-IP0.8KEG	CE-IP1KEG	CE-IP1.5KEG
Input (PV)					
Max. Input Voltage (V)	600				
Start-up Input Voltage (V)	40				
MPPT Voltage Range (V)	80~580				
Max. Input Current (A)	18				
Max. Short Circuit Current (A)	22				
Number of MPPTs	1				
String Number per MPPT	1				
Output(Grid)					
Rated Output Power (kW)	0.6	0.7	0.8	1	1.5
Max. Output Apparent Power (kVA)	0.6	0.7	0.8	1	1.5
Max. Output Active Power (kW)	0.6	0.7	0.8	1	1.5
Rated AC Voltage (V)	220/230/240, L+N+PE				
AC Voltage Range (V)	180-300(adjustable)				
Max. Output Current (A)	2.6	3.0	3.5	4.3	6.5
Rated Grid Frequency (Hz)	50/60				
Grid Frequency Range (Hz)	45~55/55~65				
Power Factor	>0.99, 0.8 leading-0.8 lagging				
THDi	< 3%				
DC Current Injection	< 0.5%In				
Efficiency					
Max. Efficiency	98.6%				
European Efficiency	98.1%				
Protection					
Ground Fault Monitoring	Support				
Output Over Voltage Protection	Support				
Anti-islanding Protection	Support				
Intergrated AFCI	Optional				
DC Reverse Protection	Support				
Surge Arrester	DC Type II/ AC Type III				
General					
Topology	Transformerless				
Ingress Protection	IP66				
Cooling	Natural cooling				
Operating Temperature Range(°C)	-25~+60, >45 derating				
Relative Humidity Range	0-100% (no condensing)				
Max. Operating Altitude (m)	3,000				
Noise Emission (dB)	20				
Dimension (mm)	342W×352H×110D				
Weight (kg)	6				
Display	Wireless, APP, LCD				
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485				
Certification					
Safety Standard	IEC62109-1/-2				
EMC Standard	IEC61000-6-1/-2/-3				
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699				
Warranty	5 Years				

Single Phase On Grid Inverter

CE-IP2/3.6KEG
CE-IP3/4KEG-Mini



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- ARC fault detection optional

Technical Data

Model	CE-IP2KEG	CE-IP3KEG-Mini	CE-IP3.6KEG	CE-IP4KEG-Mini
Input (PV)				
Max. Input Voltage (V)			600	
Start-up Input Voltage (V)			40	
MPPT Voltage Range (V)			80~580	
Max. Input Current (A)			18	
Max. Short Circuit Current (A)			22	
Number of MPPTs			1	
String Number per MPPT			1	
Output (Grid)				
Rated Output Power (kW)	2	3	3.6	4
Max. Output Apparent Power (kVA)	2	3	3.6	4
Max. Output Active Power (kW)	2	3	3.6	4
Rated AC Voltage (V)			220/230/240, L+N+PE	
AC Voltage Range (V)			180~300 (adjustable)	
Max. Output Current (A)	8.7	13.0	15.7	17.4
Rated Grid Frequency (Hz)			50/60	
Grid Frequency Range (Hz)			45~55/55~65	
Power Factor			>0.99, 0.8 leading~0.8 lagging	
THDi			<3%	
DC Current Injection			<0.5%In	
Efficiency				
Max. Efficiency			98.6%	
European Efficiency			98.1%	
Protection				
Ground Fault Monitoring			Support	
Output Over Voltage Protection			Support	
Anti-islanding Protection			Support	
Intergrated AFCI			Optional	
DC Reverse Protection			Support	
Surge Arrester			DC Type II/ AC Type III	
General				
Topology			Transformerless	
Ingress Protection			IP66	
Cooling			Natural cooling	
Operating Temperature Range (°C)			-25~+60, >45 derating	
Relative Humidity Range			0~100% (no condensing)	
Max. Operating Altitude (m)			3,000	
Noise Emission (dB)			≤20	
Dimension (mm)			342W×352H×110D	
Weight (kg)			6	
Display			Wireless, APP, LCD	
Communication			WiFi (2.4G), 4G, GPRS, Bluetooth, RS485	
Certification				
Safety Standard			IEC62109-1/-2	
EMC Standard			IEC61000-6-1/-2/-3	
Grid Code			AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699	
Warranty			5 Years	

Single Phase On Grid Inverter

CE-1P3/4/4.6/5/6KEG



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- ARC fault detection optional

Technical Data

Model	CE-1P3KEG	CE-1P4KEG	CE-1P4.6KEG	CE-1P5KEG	CE-1P6KEG
Input (PV)					
Max. Input Voltage (v)			600		
Start-up Input Voltage (v)			40		
MPPT Voltage Range (v)			80~580		
Max. Input Current (A)			18+18		
Max. Short Circuit Current (A)			22+22		
Number of MPPTs			2		
String Number per MPPT			1+1		
Output(Grid)					
Rated Output Power (kW)	3	4	4.6	5	6
Max. Output Apparent Power (kVA)	3	4	4.6	5	6
Max. Output Active Power (kW)	3	4	4.6	5	6
Rated AC Voltage (V)	220/230/240, L+N+PE				
AC Voltage Range (v)	180~300(adjustable)				
Max. Output Current (A)	13	17.4	20	21.7	26
Rated Grid Frequency (Hz)	50/60				
Grid Frequency Range (Hz)	45~55/55~65				
Power Factor	>0.99, 0.8 leading~0.8 lagging				
THDi	<3%				
DC Current Injection	<0.5%In				
Efficiency					
Max. Efficiency	98.6%				
European Efficiency	98.1%				
Protection					
Ground Fault Monitoring	Support				
Output Over Voltage Protection	Support				
Anti-islanding Protection	Support				
Intergrated AFCI	Optional				
DC Reverse Protection	Support				
Surge Arrester	DC Type II/ AC Type III				
General					
Topology	Transformerless				
Ingress Protection	IP66				
Cooling	Natural cooling				
Operating Temperature Range(°C)	-25~+60, >45 derating				
Relative Humidity Range	0~100% (no condensing)				
Max. Operating Altitude (m)	3,000				
Noise Emission (dB)	20				
Dimension (mm)	350Wx340Hx156D				
Weight (kg)	10				
Display	Wireless, APP, LCD				
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485				
Certification					
Safety Standard	IEC62109-1/-2				
EMC Standard	IEC61000-6-1/-2/-3				
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699				
Warranty	5 Years				

Single Phase On Grid Inverter

CE-IP6KEG-Pro
CE-IP7/8/9/10KEG



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- 3 MPPTs, install more panels in different directions
- ARC fault detection optional

Technical Data

Model	CE-IP6KEG-Pro	CE-IP7KEG	CE-IP8KEG	CE-IP9KEG	CE-IP10KEG
Input (PV)					
Max. Input Voltage (V)	600				
Start-up Input Voltage (V)	40				
MPPT Voltage Range (V)	80~580				
Max. Input Current (A)	18+18+18	18+18+18	18+18+18	18+18+36	18+18+36
Max. Short Circuit Current (A)	22+22+22	22+22+22	22+22+22	22+22+44	22+22+44
Number of MPPTs	3				
String Number per MPPT	1+1+1	1+1+1	1+1+1	1+1+2	1+1+2
Output(Grid)					
Rated Output Power (kW)	6	7	8	9	10
Max. Output Apparent Power (kVA)	6	7	8	9	10
Max. Output Active Power (kW)	6	7	8	9	10
Rated AC Voltage (V)	220/230/240, L+N+PE				
AC Voltage Range (V)	180-300(adjustable)				
Max. Output Current (A)	26	30.4	34.8	39.1	43.5
Rated Grid Frequency (Hz)	50/60				
Grid Frequency Range (Hz)	45~55/55~65				
Power Factor	>0.99, 0.8 leading~0.8 lagging				
THDi	< 3%				
DC Current Injection	< 0.5%In				
Efficiency					
Max. Efficiency	98.6%				
European Efficiency	98.1%				
Protection					
Ground Fault Monitoring	Support				
Output Over Voltage Protection	Support				
Anti-islanding Protection	Support				
Intergrated AFCI	Optional				
DC Reverse Protection	Support				
Surge Arrester	DC Type II/ AC Type III				
General					
Topology	Transformerless				
Ingress Protection	IP66				
Cooling	Natural cooling				
Operating Temperature Range(°C)	-25~+60, >45 derating				
Relative Humidity Range	0~100% (no condensing)				
Max. Operating Altitude (m)	3,000				
Noise Emission (dB)	20				
Dimension (mm)	411Wx401Hx162D				
Weight (kg)	14				
Display	Wireless, APP, LCD				
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485				
Certification					
Safety Standard	IEC62109-1/-2				
EMC Standard	IEC61000-6-1/-2/-3				
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699				
Warranty	5 Years				

Three Phase On Grid Inverter

CE-3P3/4/5/6KEG



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- ARC fault detection optional

Technical Data

Model	CE-3P3KEG	CE-3P4KEG	CE-3P5KEG	CE-3P6KEG
Input (PV)				
Max. Input Voltage (V)	1,100			
Start-up Input Voltage (V)	50			
MPPT Voltage Range (V)	100~1,080			
Max. Input Current (A)	18+18			
Max. Short Circuit Current (A)	22+22			
Number of MPPTs	2			
String Number per MPPT	1+1			
Output (Grid)				
Rated Output Power (kW)	3	4	5	6
Max. Output Apparent Power (kVA)	3	4	5	6
Max. Output Active Power (kW)	3	4	5	6
Rated AC Voltage (V)	220/230/240, L+N+PE			
AC Voltage Range (V)	180~300 (adjustable)			
Max. Output Current (A)	4.35	5.8	7.25	8.7
Rated Grid Frequency (Hz)	50/60			
Grid Frequency Range (Hz)	45~55/55~65			
Power Factor	>0.99, 0.8 leading~0.8 lagging			
THDi	<3%			
DC Current Injection	<0.5%In			
Efficiency				
Max. Efficiency	98.6%			
European Efficiency	98.1%			
Protection				
Ground Fault Monitoring	Support			
Output Over Voltage Protection	Support			
Anti-islanding Protection	Support			
Intergrated AFCI	Optional			
DC Reverse Protection	Support			
Surge Arrester	DC Type II/ AC Type III			
General				
Topology	Transformerless			
Ingress Protection	IP66			
Cooling	Natural cooling			
Operating Temperature Range(°C)	-25~+60, >45 derating			
Relative Humidity Range	0~100% (no condensing)			
Max. Operating Altitude (m)	3,000			
Noise Emission (dB)	20			
Dimension (mm)	350Wx340Hx156D			
Weight (kg)	14			
Display	Wireless, APP, LCD			
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485			
Certification				
Safety Standard	IEC62109-1/-2			
EMC Standard	IEC61000-6-1/-2/-3			
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699			
Warranty	5 Years			

Three Phase On Grid Inverter

CE-3P5/6KEG-Pro
CE-3P8/10KEG



Product Features

- High PV input current, up to 18A
- LoW PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- 3 MPPTs, install more panels in different directions
- ARC fault detection optional

Technical Data

Model	CE-3P5KEG-Pro	CE-3P6KEG-Pro	CE-3P8KEG	CE-3P10KEG
Input (PV)				
Max. Input Voltage (v)	1,100			
Start-up Input Voltage (v)	50			
MPPT Voltage Range (v)	100~1,080			
Max. Input Current (A)	18+18+18	18+18+18	18+18+18	18+18+36
Max. Short Circuit Current (A)	22+22+22	22+22+22	22+22+22	22+22+44
Number of MPPTs	3			
String Number per MPPT	1+1+1	1+1+1	1+1+1	1+1+2
Output(Grid)				
Rated Output Power (kW)	5	6	8	10
Max. Output Apparent Power (kVA)	5	6	8	10
Max. Output Active Power (kW)	5	6	8	10
Rated AC Voltage (v)	220/230/240, L+N+PE			
AC Voltage Range (v)	277~460(adjustable)			
Max. Output Current (A)	7.25	8.7	11.6	14.5
Rated Grid Frequency (Hz)	50/60			
Grid Frequency Range (Hz)	45~55/55~65			
Power Factor	>0.99, 0.8 leading~0.8 lagging			
THDi	<3%			
DC Current Injection	<0.5%In			
Efficiency				
Max. Efficiency	98.6%			
European Efficiency	98.3%			
Protection				
Ground Fault Monitoring	Support			
Output Over Voltage Protection	Support			
Anti-islanding Protection	Support			
Intergrated AFCI	Optional			
DC Reverse Protection	Support			
Surge Arrester	DC Type II/ AC Type III			
General				
Topology	Transformerless			
Ingress Protection	IP66			
Cooling	Natural cooling			
Operating Temperature Range(°C)	-25~+60, >45 derating			
Relative Humidity Range	0-100% (no condensing)			
Max. Operating Altitude (m)	3,000			
Noise Emission (dB)	20			
Dimension (mm)	411Wx401Hx162D			
Weight (kg)	15			
Display	Wireless, APP, LCD			
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485			
Certification				
Safety Standard	IEC62109-1/-2			
EMC Standard	IEC61000-6-1/-2/-3			
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBRI6149, ABNT NBRI6150, VDE4105, CEI0-21, RD1699			
Warranty	5 Years			

Three Phase On Grid Inverter

CE-3P12/15/18/20KEG



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- 3 MPPTs, install more panels in different directions
- ARC fault detection optional

Technical Data

Model	CE-3P12KEG	CE-3P15KEG	CE-3P18KEG	CE-3P20KEG
Input (PV)				
Max. Input Voltage (V)			1,100	
Start-up Input Voltage (V)			50	
MPPT Voltage Range (V)			100~1,080	
Max. Input Current (A)			18+18+36	
Max. Short Circuit Current (A)			22+22+44	
Number of MPPTs			3	
String Number per MPPT			1+1+2	
Output(Grid)				
Rated Output Power (kW)	12	15	18	20
Max. Output Apparent Power (kVA)	12	15	18	20
Max. Output Active Power (kW)	12	15	18	20
Rated AC Voltage (V)		220/380,230/400, 3L+N+PE		
AC Voltage Range (V)		277~460(adjustable)		
Max. Output Current (A)	17.4	21.7	26.1	29
Rated Grid Frequency (Hz)		50/60		
Grid Frequency Range (Hz)		45~55/55~65		
Power Factor		>0.99, 0.8 leading~0.8 lagging		
THDi		<3%		
DC Current Injection		<0.5%In		
Efficiency				
Max. Efficiency		98.6%		
European Efficiency		98.3%		
Protection				
Ground Fault Monitoring		Support		
Output Over Voltage Protection		Support		
Anti-islanding Protection		Support		
Intergrated AFCI		Optional		
DC Reverse Protection		Support		
Surge Arrester		DC Type II/ AC Type III		
General				
Topology		Transformerless		
Ingress Protection		IP66		
Cooling		External fan-cooling		
Operating Temperature Range(°C)		-25~+60, >45 derating		
Relative Humidity Range		0~100% (no condensing)		
Max. Operating Altitude (m)		3,000		
Noise Emission (dB)		≤40		
Dimension (mm)		411Wx401Hx162D		
Weight (kg)		15.2		
Display		Wireless, APP, LCD		
Communication		WiFi (2.4G), 4G, GPRS, Bluetooth, RS485		
Certification				
Safety Standard		IEC62109-1/-2		
EMC Standard		IEC61000-6-1/-2/-3		
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699			
Warranty	5 Years			

Three Phase On Grid Inverter

CE-3P15/18/20/KEG-Pro
CE-3P22/25/30KEG



Product Features

- High PV input current, up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier to set and monitor inverter parameters
- High converter efficiency
- IP66 protection degree
- 3 MPPTs, install more panels in different directions
- ARC fault detection optional

Technical Data

Model	CE-3P15KEG-Pro	CE-3P18KEG-Pro	CE-3P20KEG-Pro	CE-3P22KEG	CE-3P25KEG	CE-3P30KEG
Input (PV)						
Max. Input Voltage (V)	1,100					
Start-up Input Voltage (V)	50					
MPPT Voltage Range (V)	100~1,080					
Max. Input Current (A)	18+18+36					
Max. Short Circuit Current (A)	44+44+44					
Number of MPPTs	3					
String Number per MPPT	2+2+2					
Output(Grid)						
Rated Output Power (kW)	15	18	20	22	25	30
Max. Output Apparent Power (kVA)	15	18	20	22	25	30
Max. Output Active Power (kW)	15	18	20	22	25	30
Rated AC Voltage (V)	220/380,230/400, 3L+N+PE					
AC Voltage Range (V)	277~460(adjustable)					
Max. Output Current (A)	21.7	26.1	29	31.9	36.2	43.5
Rated Grid Frequency (Hz)	50/60					
Grid Frequency Range (Hz)	45~55/55~65					
Power Factor	>0.99, 0.8 leading~0.8 lagging					
THDi	< 3%					
DC Current Injection	< 0.5%In					
Efficiency						
Max. Efficiency	98.6%					
European Efficiency	98.3%					
Protection						
Ground Fault Monitoring	Support					
Output Over Voltage Protection	Support					
Anti-islanding Protection	Support					
Intergrated AFCI	Optional					
DC Reverse Protection	Support					
Surge Arrester	DC Type II/ AC Type III					
General						
Topology	Transformerless					
Ingress Protection	IP66					
Cooling	External fan-cooling					
Operating Temperature Range(°C)	-25~+60, >45 derating					
Relative Humidity Range	0~100% (no condensing)					
Max. Operating Altitude (m)	3,000					
Noise Emission (dB)	40					
Dimension (mm)	478Wx461Hx174D					
Weight (kg)	21					
Display	Wireless, APP, LCD					
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485					
Certification						
Safety Standard	IEC62109-1/-2					
EMC Standard	IEC61000-6-1/-2/-3					
Grid Code	AS4777.2, EN50549-1, G98, G99, ABNT NBR16149, ABNT NBR16150, VDE4105, CEI0-21, RD1699					
Warranty	5 Years					

Three Phase On Grid Inverter

CE-3P40/50/60/75KEG



Product Features

- High PV input current up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier inverter parameter setting and monitoring
- High converter efficiency
- IP66 protection degree

Technical Data

Model	CE-3P40KEG	CE-3P50KEG	CE-3P60KEG	CE-3P75KEG
Input (Pv)				
Max. Input Voltage (V)	1,100			
Start-up Input Voltage (V)	50			
MPPT Voltage Range (V)	100~1,080			
Max. Input Current (A)	5x36	6x36	6x36	6x36
Max. Short Circuit Current (A)	5x44	6x44	6x44	6x44
Number of MPPTs	5	6	6	6
String Number per MPPT	2/10	2/12	2/12	2/12
Output(Grid)				
Rated Output Power (kW)	40	50	60	75
Max. Output Apparent Power (kVA)	40	50	60	75
Max. Output Active Power (kW)	40	50	60	75
Rated AC Voltage (V)	220/380, 230/400, 240/415			
AC Voltage Range (V)	312~520			
Max. Output Current (A)	13	17.4	20	21.7
Rated Grid Frequency (Hz)	50/60			
Grid Frequency Range (Hz)	45~55/55~65			
Power Factor	>0.99, 0.8 leading~0.8 lagging			
THDi	<3%			
DC Current Injection	<0.5%In			
Efficiency				
Max. Efficiency	98.8%			
European Efficiency	98.3%			
Protection				
Ground Fault Monitoring	Support			
Output Over Voltage Protection	Support			
Anti-islanding Protection	Support			
Intergrated AFCI	Optional			
DC Reverse Protection	Support			
Surge Arrester	DC Type II / AC Type III			
General				
Topology	Transformerless			
Ingress Protection	IP66			
Cooling	Smart fan			
Operating Temperature Range (°C)	-25~60, >45 derating			
Relative Humidity Range	0~100% (no condensing)			
Max. Operating Altitude (m)	3,000			
Noise Emission (dB)	≤40			
Dimension (mm)	700Wx519Hx270D			
Weight (kg)	50			
Display	Wireless, APP, LCD			
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485			
Certification				
Safety Standard	IEC-62109-1/-2, IEC-62477-1/-2			
EMC Standard	IEC-61000-6-1/-2/-3, NB/T32004			
Grid Code	AS/NZS 4777.2:2020, EN50549-1:2019, G98:2021, G99:2021, NC RFG, PTPIREE, ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699			
Warranty	5 Years			

Three Phase On Grid Inverter

CE-3P75KEG-Pro
CE-3P80/100/110KEG



Product Features

- High PV input current up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier inverter parameter setting and monitoring
- High converter efficiency
- IP66 protection degree

Technical Data

Model	CE-3P75KEG-Pro	CE-3P80KEG	CE-3P100KEG	CE-3P110KEG
Input (Pv)				
Max. Input Voltage (V)		1,100		
Start-up Input Voltage (V)		50		
MPPT Voltage Range (V)		100~1,080		
Max. Input Current (A)		9x36		
Max. Short Circuit Current (A)		9x44		
Number of MPPTs		9		
String Number per MPPT		2/18		
Output(Grid)				
Rated Output Power (kW)	75	80	100	110
Max. Output Apparent Power (kVA)	75	80	100	110
Max. Output Active Power (kW)	75	80	100	110
Rated AC Voltage (V)		220/380, 230/400, 240/415		
AC Voltage Range (V)		312~520		
Max. Output Current (A)	108.7	115.9	144.9	159.4
Rated Grid Frequency (Hz)		50/60		
Grid Frequency Range (Hz)		45~55/55~65		
Power Factor		>0.99, 0.8 leading~0.8 lagging		
THDi		<3%		
DC Current Injection		<0.5%In		
Efficiency				
Max. Efficiency		98.8%		
European Efficiency		98.3%		
Protection				
Ground Fault Monitoring		Support		
Output Over Voltage Protection		Support		
Anti-islanding Protection		Support		
Intergrated AFCI		Optional		
DC Reverse Protection		Support		
Surge Arrester		DC Type II / AC Type III		
General				
Topology		Transformerless		
Ingress Protection		IP66		
Cooling		Smart fan		
Operating Temperature Range (°C)		-25~60, >45 derating		
Relative Humidity Range		0~100% (no condensing)		
Max. Operating Altitude (m)		3,000		
Noise Emission (dB)		≤40		
Dimension (mm)		1,000Wx654Hx300D		
Weight (kg)		85		
Display		Wireless, APP, LCD		
Communication		WiFi (2.4G), 4G, GPRS, Bluetooth, RS485		
Certification				
Safety Standard		IEC-62109-1/-2, IEC-62477-1/-2		
EMC Standard		IEC-61000-6-1/-2/-3, NB/T32004		
Grid Code	AS/NZS 4777.2:2020, EN50549-1:2019, G98:2021, G99:2021, NC RFG, PTPIREE, ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699			
Warranty		5 Years		

Three Phase On Grid Inverter

CE-3P125/136KEG



Product Features

- High PV input current up to 18A
- Low PV start-up voltage, generate power earlier
- Support Bluetooth communication, easier inverter parameter setting and monitoring
- High converter efficiency
- IP66 protection degree

Technical Data

Model	CE-3PI25KEG	CE-3PI36KEG
Input (PV)		
Max. Input Voltage (V)	1,100	
Start-up Input Voltage (V)	50	
MPPT Voltage Range (V)	100~1,080	
Max. Input Current (A)	9x36	
Max. Short Circuit Current (A)	9x44	
Number of MPPTs	9	
String Number per MPPT	2/18	
Output(Grid)		
Rated Output Power (kW)	125	136
Max. Output Apparent Power (kVA)	125	136
Max. Output Active Power (kW)	125	136
Rated AC Voltage (V)	220/380, 230/400, 240/415	
AC Voltage Range (V)	312~520	
Max. Output Current (A)	134.4	146.2
Rated Grid Frequency (Hz)	50/60	
Grid Frequency Range (Hz)	45~55/55~65	
Power Factor	>0.99, 0.8 leading~0.8 lagging	
THDi	<3%	
DC Current Injection	<0.5%In	
Efficiency		
Max. Efficiency	98.8%	
European Efficiency	98.3%	
Protection		
Ground Fault Monitoring	Support	
Output Over Voltage Protection	Support	
Anti-islanding Protection	Support	
Intergrated AFCI	Optional	
DC Reverse Protection	Support	
Surge Arrester	DC Type II / AC Type III	
General		
Topology	Transformerless	
Ingress Protection	IP66	
Cooling	Smart fan	
Operating Temperature Range (°C)	-25~60, >45 derating	
Relative Humidity Range	0~100% (no condensing)	
Max. Operating Altitude (m)	3,000	
Noise Emission (dB)	≤40	
Dimension (mm)	1,000Wx654Hx300D	
Weight (kg)	85	
Display	Wireless, APP, LCD	
Communication	WiFi (2.4G), 4G, GPRS, Bluetooth, RS485	
Certification		
Safety Standard	IEC-62109-1/-2, IEC-62477-1/-2	
EMC Standard	IEC-61000-6-1/-2/-3, NB/T32004	
Grid Code	AS/NZS 4777.2:2020, EN50549-1:2019, G98:2021, G99:2021, NC RFG, PTPIREE, ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699	
Warranty	5 Years	

04

LOW VOLTAGE INVERTER

P39 Single Phase Hybrid Inverter
Ven-1P2.5/3.6/5/6G1-LE

P41 Jup-1P5/6/8/10G1-LE

P43 Triple Phase Hybrid Inverter
Mars-5/6/8/10/12/14G1-LE

CHISAGE ESS

Single Phase Hybrid Inverter

Ven-IP2.5/3.6/5/6G1-LE



Product Features

- Support different power inverters parallel connection
- Unlimited quantity inverters parallel for on-grid and 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-IP2.5G1-LE	Ven-IP3.6G1-LE	Ven-IP5G1-LE	Ven-IP6G1-LE
Battery Input Data				
Battery Type	Lead-acid or Li-Lon			
Battery Voltage Range (V)	40-60			
Max. Charge Current (A)	60	72	120	140
Max. Discharge Current (A)	60	72	120	140
Charging Curve	3 Stages/Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-Adaption to BMS			
PV string Input Data				
Max. DC Input Power (W)	2,750	4,800	7,500	9,000
PV Input Voltage (V)	370(125~500)			
MPPT Range (V)	150~425			
Start-up Voltage (V)	120			
PV Input Current (A)	17+17	17+17	17+17	17+17
Max. PV Isc (A)	20+20	20+20	20+20	20+20
No. of MPPT Trackers	2	2	2	2
No. of String Per MPPT Tracker	1+1	1+1	1+1	1+1
AC Output Data				
Rated AC Output Power and UPS Power (W)	2,500	3,600	5,000	6,000
Max. AC Output Power (W)	3,000	4,320	6,000	7,200
Peak Power (off grid)	2 times of rated power, 10s			
AC Output Rated Current (A)	11.4/10.9	16.4/15.7	22.7/21.7	27.3/26.1
Max. AC Current (A)	13.6/13.1	18/17.2	25/23.9	30.0/28.7
Max. Continuous AC Passthrough (A)	30	30	40	40
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz,220/230Vac(single phase)			
Grid Type	single phase			
Current Harmonic Distortion	THD<3%(Linear load <1.5%)			
Efficiency				
Max. Efficiency	96.60%			
Euro Efficiency	96.00%			
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			
Certification 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)	34			
Dimensions (mm)	356Wx380Hx177D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years			

Single Phase Hybrid Inverter

Jup-1P5/6/8/10G1-LE



Product Features

- Support different power inverters parallel connection
- Unlimited quantity inverters parallel for on-grid and 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-1P5G1-LE	Jup-1P6G1-LE	Jup-1P8G1-LE	Jup-1P10G1-LE
Battery Input Data				
Battery Type	Lead-acid or Li-Lon			
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	Yes			
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)	17+17	17+17	34+17	34+34
Max. PV Isc (A)	20+20	20+20	40+20	40+40
No. of MPPT Trackers	2	2	2	2
No. of String Per MPPT Tracker	1+1	1+1	2+1	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		1.8 times of rated power, 10s	
AC Output Rated Current (A)	22.7/21.7	27.3/26.1	34.5/33	45.5/43.5
Max. AC Current (A)	25/23.9	30/28.7	40/38.3	50.0/47.8
Max. Continuous AC Passthrough (A)	40	40	50	60
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz,220/230Vac(single phase)			
Grid Type	single phase			
Current Harmonic Distortion	THD<3%(Linear load <1.5%)			
Efficiency				
Max. Efficiency	96.60%			
Euro Efficiency	96.00%			
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			
Certification and Standards				
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-II			
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)	34			
Dimensions (mm)	567WX467HX292D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 Years			

Triple Phase Hybrid Inverter

Mars-5/6/8/10/12/14G1-LE



Product Features

- Support different power inverters parallel connection
- Unlimited quantity inverters parallel for on-grid and off-grid operation
- 100% unbalanced output, each phase max. output up to 50% rated power
- Support on/off grid mode switch, EPS output
- Colorful 7-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	Mars-5G1-LE	Mars-6G1-LE	Mars-8G1-LE	Mars-10G1-LE	Mars-12G1-LE	Mars-14G1-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	Yes					
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)	17+17	17+17	17+17	26+17	26+17	26+17
Max. PV Isc (A)	20+20	20+20	20+20	34+20	34+20	34+20
No. of MPPT Trackers	2					
No. of Strings per MPPT Trackers	1+1	1+1	1+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)	6,000	7,200	9,600	12,000	13,200	15,400
Peak PoWer(off grid)	2 times of rated power, 10s				1.8 times of rated power, 10s	
AC Output Rated Current (A)	7.6/7.3	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4	21.1/20.3
Max. AC Current (A)	11.4/10.9	13.6/13	18.2/17.4	22.7/21.7	27.3/26.1	27.6/26.4
Max. Continuous AC Passthrough (A)	30	30	30	50	50	50
Power Factor	0.8 leading to 0.8 lagging					
Output Frequency and Voltage (v)	50/60Hz, 380/400Vac(Triple phase)					
Grid Type	Three phase					
Current Harmonic Distortion	THD<3%(Linear load<1.5%)					
Efficiency						
Max. Efficiency	96.60%					
Euro Efficiency	96.00%					
MPPT Efficiency	99.00%					
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-II					
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 (°C)	-45~60,>45 Derating					
Cooling	Smart Cooling					
Noise (dB)	≤45					
Communication with BMS	RS485, CAN					
Weight (kg)	38	40	42	44	44	45
Dimensions (mm)	510Wx630Hx290D					
Protection Degree	IP65					
Installation Style	Wall-mounted					
Warranty	5 Years					



05

C&I HYBRID INVERTER

P45 CE0030/0050/0100/0150/
0250/0500

CHISAGE ESS

C&I Hybrid Inverter

CE0030/0050/
0100/0150/0250/0500



Product Features

- Various working modes can be set flexibly
- PV controller modular design, easy to expand
- Built-in isolation transformer for high load adaptability
- Perfect protection function for inverter and battery
- Redundancy design for important functions
- Integrated design, easy to integrate
- Support simultaneous access of load, battery, power grid, diesel and PV
- Built-in maintenance bypass switch, improve system availability
- Support battery capacity and discharge time prediction
- Smooth switching between on and off grid, uninterrupted supply of load
- Operate with EMS to monitor system status in real time

Technical Data						
Model	CE0030	CE0050	CE0100	CE0150	CE0250	CE0500
AC(On-Grid)						
Max Output Power (kVA)	33	55	110	165	275	550
Rated Power (kW)	30	50	100	150	250	500
Rated Voltage (V)	400					
Rated Current (A)	43	72	144	216	361	722
Voltage Range (V)	320~460					
Rated Frequency (Hz)	50/60					
Frequency Range (Hz)	45~55/55~65					
THDi	<3%					
Power Factor	1lagging~1leading					
AC Connection	3W+N+PE					
Transformer Ratio	100/400	200/400	270/400	270/400	270/400	315/400
AC(Off Grid)						
Max Output Power (kVA)	33	55	110	165	275	550
Rated Power (kW)	30	50	100	150	250	500
Rated Voltage (V)	400					
Rated Current (A)	43	72	144	216	361	722
THDu	≤1% linear, or≤5% nonlinear					
Rated Frequency (Hz)	50/60					
Overload Capacity	110% long-term					
PV Input						
Max.PV Input Voltage (V)	1,000					
Max.PV Power (kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720
MPPT Voltage Range (V)	250~850					
MPPT Voltage Range@full load (V)	450~850					
Battery						
Battery Voltage Range (V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. Charging Power (kW)	60/120	60/120	120/180/240	120/180/240	300/360	600/660/720
General data						
Dimension W×D×H (mm)	800×800×1,900	800×800×1,900	1,200×800×2,050	1,200×800×2,050	(600×720×2,050)×1+ 1,200×800×2,050	(600×720×2,050)×2+ 1,600×1,050×2,050
Weight (kg)	620/650	720/750	1,120/1,150/1,180	1,250/1,280/1,310	1,980/2,010	3,265/3,295/3,325
Operation Temperature(°C)	-30~ 55					
Relative Humidity	0 ~95% non-condensing					
Ingress Protection	IP20					
Noise Emission (dB)	<70					
Altitude(m)	5,000(>3,000 Derating)					
Cooling	Air Cooling					
Display and Communication						
Display	LCD touch-screen					
BMS Communication	RS485, CAN					
EMS Communication	RS485, TCP/IP					
Certificates	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4, South Africa NRS097-2-1:2017, Pakistan&India IEC61727, IEC62116, IEC61683					

06



HIGH VOLTAGE HYBRID ALL IN ONE ESS

P47	CE-1P3/3.6/4/4.6/ 5/6/8KEG-HE-EU
P49	CE-3P4/5/6/8/10/12/15 /18/20KEG-HE-EU

CHISAGE ESS

Household Single Phase Hybrid All In One ESS

CE-1P3/3.6/4/4.6/5/6/8KEG-HE-EU



Product Features

- 80-500V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 18A PV input current
- 100% full load charge and discharge
- WiFi and Bluetooth connection
- IP66 protection degree
- 27A/30A charging and discharging current, suitable for middle voltage and high voltage batteries

Technical Data

Model	CE-1P3KEG -HE-EU	CE-1P3.6KEG -HE-EU	CE-1P4KEG -HE-EU	CE-1P4.6KEG -HE-EU	CE-1P5KEG -HE-EU	CE-1P6KEG -HE-EU	CE-1P8KEG -HE-EU
Inverter Data							
Battery Type				Li-ion			
Battery Voltage Range (Vdc)				80~500			
Max. Charging/discharging Current (A)				30/30			
Rated Charging/discharging Current (A)				27/27			
Recommended Max. PV Power (kWp)	6	7.2	8	9.2	10	12	16
Max. Input Voltage (V)				600			
MPPT Voltage Range (V)				80~580			
Max. Input Current (A)				18+36			
Max. Short Circuit Current (A)				22+44			
MPPT Number				2			
Strings Number per MPPT				1+2			
Rated Grid Voltage/range (V)				220/230/240, 180~300			
Rated Output Power (kW)	3	3.6	4	4.6	5	6	8
Max. Apparent Output Power (kVA)	3	3.6	4	4.6	5	6	8
Rated Grid Output Current (A)	13	15.7	17.4	20	21.7	26.1	34.8
Max. Output Current (A)	13	15.7	17.4	20	21.7	26.1	34.8
Back-Up Switch Time (ms)				<10			
Rated Frequency (Hz)				50/60			
Max. Efficiency				98.6%			
EU Efficiency				98.1%			
Topology				Transformerless			
Dimensions (mm)				740×450×178			
Weight (kg)				30			
General Data							
Shell Material				Aluminium alloy			
Operating Ambient Temperature Range (°C)				-25~60			
Ingress Protection				IP66			
Cooling Concept	Natural convection			Smart fan			
Max. Operation Altitude (m)				3,000			
Grid Connection Standard	AS/NZS 4777.2:2020, EN50549-1:2019, G98:2021, G99:2021, NC RFG, PTPIREE, ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699						
Safety/EMC Standard	IEC-62109-1/-2, IEC-62477-1/-2, IEC-61000-6-1/-2/-3, NB/T32004						
Communications				WiFi, 4G, GPRS, Bluetooth, RS485, CAN			
Battery Data							
Model (kWh)				4.03			
Battery Type				LFP			
Nominal Voltage/Range (V)				96/80~108			
Capacity (Ah)				42			
Depth of discharge(DoD)				95%			
Dimension (mm)				740W×550H×178D			
Weight (kg)				30			
System Parameter							
Qty. of Batteries	1	2	3	4	5		
Charge/Discharge Temperature Range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C						
Cycle Life	6,000						
Nominal voltage (V)	96	192	288	384	480		
Battery Total Energy (kWh)	4.03	8.06	12.09	16.12	20.15		
Dimension (mm)	740W×550H×178D	740W×740H×178D	740W×1,130H×178D	740W×1,420H×178D	740W×1,130H×178D +740W×840H×178D		
Weight (kg)	30	60	90	120	90+60		

Household Three Phase Hybrid All In One ESS

CE-3P4/5/6/8/10/12/15/18/20KEG-HE-EU



Product Features

- 80-800V super wide battery voltage range
- Within 10ms UPS-level switching
- Max. 18A PV input current
- 100% full load charge and discharge
- WiFi and Bluetooth connection
- IP66 protection degree
- 27A/30A charging and discharging current, suitable for middle voltage and high voltage batteries

Technical Data									
Model	CE-3P4KEG-HE-EU	CE-3P5KEG-HE-EU	CE-3P6KEG-HE-EU	CE-3P8KEG-HE-EU	CE-3P10KEG-HE-EU	CE-3P12KEG-HE-EU	CE-3P15KEG-HE-EU	CE-3P18KEG-HE-EU	CE-3P20KEG-HE-EU

Inverter Data									
Battery Type	Li-ion								
Battery Voltage Range (Vdc)	80-800								
Max. Charging/Discharging Current (A)	30/30								
Rated Charging/Discharging Current (A)	27/27								
Recommended Max. PV Power (kWp)	6.4	8	9.6	12.8	16	19.2	24	28.8	32
Max. Input Voltage (V)	1,100								
MPPT Voltage Range (V)	100-1,080								
Max. Input Current (A)	36+36								
Max. Short Circuit Current (A)	44+44								
MPPT Number	2								
Strings Number per MPPT	2+2								
Rated Grid Voltage/range (V)	220/380, 230/400, 240/415, 312-520								
Rated Output Power (kW)	4	5	6	8	10	12	15	18	20
Max. Apparent Output Power (kVA)	4	5	6	8	10	12	15	18	20
Rated Grid Output Current (A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29
Max. Output Current (A)	5.8	7.2	8.7	11.6	14.5	17.4	21.7	26.1	29
Back-Up Switch Time (ms)	<10								
Rated Frequency (Hz)	50/60								
Max. Efficiency	98.6%								
EU Efficiency	98.1%								
Topology	Transformerless								
Dimensions (mm)	740W×450H×178D								
Weight (kg)	40								

General Data									
Shell Material	Aluminium alloy								
Operating Ambient Temperature Range (°C)	-25-60								
Ingress Protection	IP66								
Cooling Concept	Smart fan & Natural convection								
Max. Operation Altitude (m)	3,000								
Grid Connection Standard	AS/NZS 4777.2:2020, EN50549-1:2019, G98:2021, G99:2021, NC RFG, PTPiREE, ABNT NBR 16149, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, RD1699								
Safety/EMC Standard	IEC-62109-1/-2, IEC-62477-1/-2, IEC-61000-6-1/-2/-3, NB/T32004								
Communications	WiFi, 4G, GPRS, Bluetooth, RS485, CAN								

Battery Data									
Model (kWh)	4.03								
Battery Type	LFP								
Nominal Voltage/Range (V)	96/80-108								
Capacity (Ah)	42								
Depth of discharge(DoD)	95%								
Dimension (mm)	740W×550H×178D								
Weight (kg)	30								

System Parameter					
Qty. of Batteries	1	2	3	4	5
Charge/Discharge Temperature Range	Charge: 0°C to 53°C/Discharge: -10°C to 53°C				
Cycle Life	6,000				
Nominal Voltage (V)	96	192	288	384	480
Battery Total Energy (kWh)	4.03	8.06	12.09	16.12	20.15
Dimension (mm)	740W×550H×178D	740W×740H×178D	740×1,130×178	740×1,420×178	740×1,130×178+740×840×178
Weight (kg)	30	60	90	120	90+60

07

BATTERY PACK

P51	CE48100-R
P53	CE48100-W
P55	CE48200-W
P57	Link5/10/15/20-L

CHISAGE ESS



Battery Pack

CE48100-R



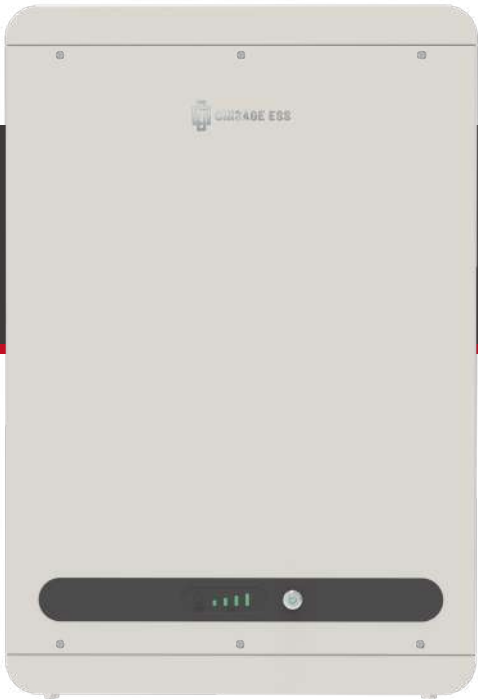
Product Features

- High inverter compatibility
- Safe LiFePO4 rechargeable battery
- Support max. 15pcs batteries in parallel
- Higher usable energy ratio, less self-consumption
- Without toxic heavy metal or caustic materials

Technical Data	
Model	CE48100-R
Nominal Energy (Wh)	5,120
Usable Energy (Wh)	4,600
Nominal Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	40~58.4
Standard Charge Current(A)	50
Standard Discharge Current (A)	50
Max. Charge Current (A)	50
Max. Discharge Current (A)	100
Max. Parallel Quantities	15
Operation Temperature	Charge Temperature: 0°C~55°C Discharge Temperature: -20°C~55°C
Working Humidity	20~80%RH (No condensing)
Protection Degree	IP20
Dimension (mm)	435W×450D×177H
Net Weight (kg)	52
Installation	Rack mounted
Certification	CE, UN38.3, IEC62619
Communication	CAN, RS485
Lifetime	6,000 Cycles@80% DOD
Warranty	5 Years

Battery Pack

CE48100-W



Product Features

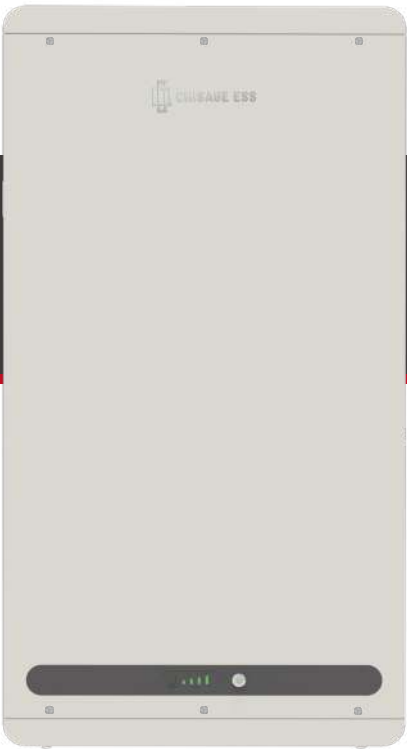
- High inverter compatibility
- IP65 protection degree
- Safe LiFePO4 rechargeable battery
- Support max. 15pcs batteries in parallel
- Higher usable energy ratio, less self-consumption
- Without toxic heavy metal or caustic materials

Technical Data

Model	CE48100-W
Nominal Energy (Wh)	5,120
Usable Energy (Wh)	4,600
Nominal Capacity (Ah)	100
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	40~58.4
Standard Charge Current (A)	50
Standard Discharge Current (A)	50
Max. Charge Current (A)	50
Max. Discharge Current (A)	100
Max. Parallel Quantities	15
Temperature Range	Charge Temperature: 0°C~55°C Discharge Temperature: -20°C~55°C
Working Humidity	20~95%RH (No condensing)
Protection Degree	IP65
Dimension (mm)	430Wx191.5Dx630H
Net Weight (kg)	55
Installation	Wall mounted, floor mounted
Certification	CE, UN38.3, IEC62619
Communication	CAN, RS485
Lifetime	6, 000 Cycles@80% DOD
Warranty	5 Years

Battery Pack

CE48200-W



Product Features

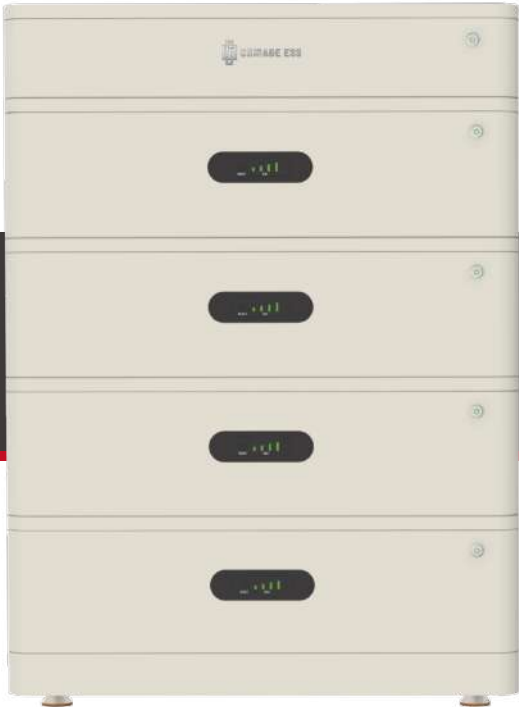
- High inverter compatibility
- IP65 protection degree
- Safe LiFePO4 rechargeable battery
- Support max. 15pcs batteries in parallel
- Higher usable energy ratio, less self-consumption
- Without toxic heavy metal or caustic materials

Technical Data

Model	CE48200-W
Nominal Energy (Wh)	10,240
Usable Energy (Wh)	9,200
Nominal Capacity (Ah)	200
Nominal Voltage (V)	51.2
Operation Voltage Range (V)	40~58.4
Standard Charge Current (A)	100
Standard Discharge Current (A)	100
Max. Charge Current (A)	100
Max. Discharge Current (A)	100
Max. Parallel Quantities	15
Temperature Range	Charge Temperature: 0°C~55°C Discharge Temperature: -20°C~55°C
Working Humidity	20~95%RH (No condensing)
Protection Degree	IP65
Dimension (mm)	520Wx196.5Dx970H
Net Weight (kg)	108
Installation	Wall mounted, floor mounted
Certification	CE, UN38.3, IEC62619
Communication	CAN, RS485
Lifetime	6, 000 Cycles@80% DOD
Warranty	5 Years

Battery Pack

Link5/10/15/20-L



Product Features

- Flexible modular design, from 5kWh to 20kWh each battery stack
- IP65 protection degree, suitable for both indoor and outdoor installation
- 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

Technical Data

Model	Link5-L	Link10-L	Link15-L	Link20-L
Nominal Energy (Wh)	5,120	10,240	15,360	20,480
Usable Energy (Wh)	4,600	9,200	13,800	18,400
Nominal Capacity (Ah)	100	200	300	400
Nominal Voltage (V)	51.2			
Operation Voltage Range (V)	40~58.4			
Standard Charge Current (A)	50	100	150	200
Standard Discharge Current (A)	50	100	150	200
Max. Charge Current (A)	50	100	150	200
Max. Discharge Current (A)	50	100	150	200
Max. Parallel Quantities	4 pcs Link5-L modules			
Operation Temperature	Charge Temperature: 0°C~55°C Discharge Temperature: -20°C~55°C			
Working Humidity	20~95%RH (No condensing)			
Protection Degree	IP65			
Dimension (mm)	665Wx530Dx355H	665Wx530Dx535H	665Wx530Dx715H	665Wx530Dx895H
Net Weight (kg)	84	142	200	258
Installation	Floor mounted			
Certification	CE, UN38.3, IEC62619			
Communication	CAN, RS485			
Lifetime	6, 000 Cycles@80% DOD			
Warranty	5 Years			

08

C&I ESS

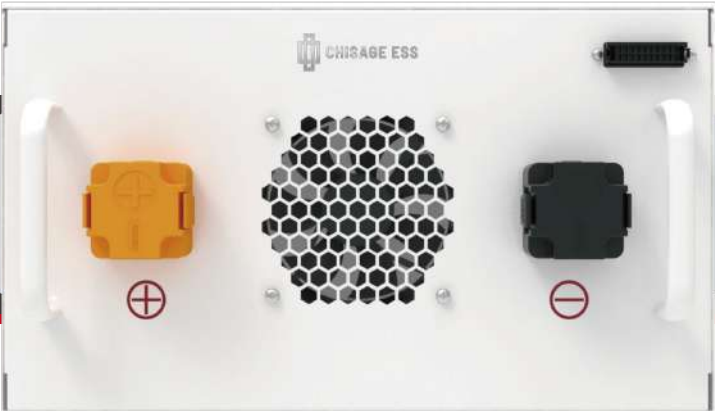
P59	CE51280-R-H
P61	CE51100-R-H
P63	CE100200-B
P65	CE186372



CHISAGE ESS

Battery Pack C&I

CE51280-R-H



Product Features

- Safe LiFePO4 rechargeable battery
- Longer life cycles
- Higher power density
- Higher usable energy ratio, less self-consumption
- Contains no toxic heavy metal or caustic materials

Technical Data

Model	CE51280-R-H
Cell Capacity (Ah)	280
Norminal Voltage (V)	51.2
Nominal Energy (Wh)	14,336
Usable Energy (Wh)	12,902
Operation Voltage Range (V)	40~58.4@(0~55°C)
Standard Charge Current (A)	140
Standard Discharge Current (A)	140
Temperature Range	Charge Temperature: 0~55°C Discharge Temperature: -20~55°C
Operation Humidity	20~80%RH
Protection Degree	IP20
Dimension (mm)	494W×760D×250H
Net Weight (kg)	115±5
Certification	CE, UN38.3

Battery Rack

Connection Series	1P16S×8	1P16S×11	1P16S×14
Norminal Voltage (V)	409.6	563.2	716.8
Nominal Energy (kWh)	114.69	157.70	200.70
Usable Energy (kWh)	103.22	141.93	180.63
Operation Voltage Range (V)	332.8~467.5@(0~55°C)	457.6~642.4@(0~55°C)	582.4~817.6@(0~55°C)
Standard Charge Current (A)	140		
Standard Discharge Current (A)	140		
Dimension (mm)	1,062W×810D×1,470H	1,062W×810D×1,740H	1,594W×810D×1,470H
Approximate Weight (kg)	1,120	1,550	1,950
Life Cycles	6,000 cycles@80% DoD		
Waranty	5 years		

Battery Pack C&I

CE51100-R-H



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

Technical Data

Model	CE51100-R-H
Cell Capacity (Ah)	100
Norminal Voltage (V)	51.2
Nominal Energy (Wh)	5,120
Usable Energy (Wh)	4,608
Operation Voltage Range (V)	40~58.4
Standard Charge Current (A)	50
Standard Discharge Current (A)	50
Max. Charge Current (A)	50
Max. Discharge Current (A)	100
Temperature Range	Charge Temperature: 0~55°C Discharge Temperature: 20~55°C
Operation Humidity	20~80%RH
Protection Degree	IP20
Dimension (mm)	416W×520D×177H
Net Weight (kg)	53.5±5
Certification	CE, UN38.3

Battery Rack

Connection Series	1P16S×10
Norminal Voltage (V)	512.0
Nominal Energy (kWh)	51.2
Usable Energy (kWh)	46.1
Operation Voltage Range (V)	416~576@(0~55°C)
Standard Charge Current (A)	50
Standard Discharge Current (A)	50
Max. Charge Current (A)	50
Max. Discharge Current (A)	100
Dimension (mm)	510W×540D×2200H
Approximate Weight (kg)	630
Life Cycles	6,000 cycles@80% DOD
Waranty	5 years

Battery Storage All In One Cabinet

CE100200-B



Product Features

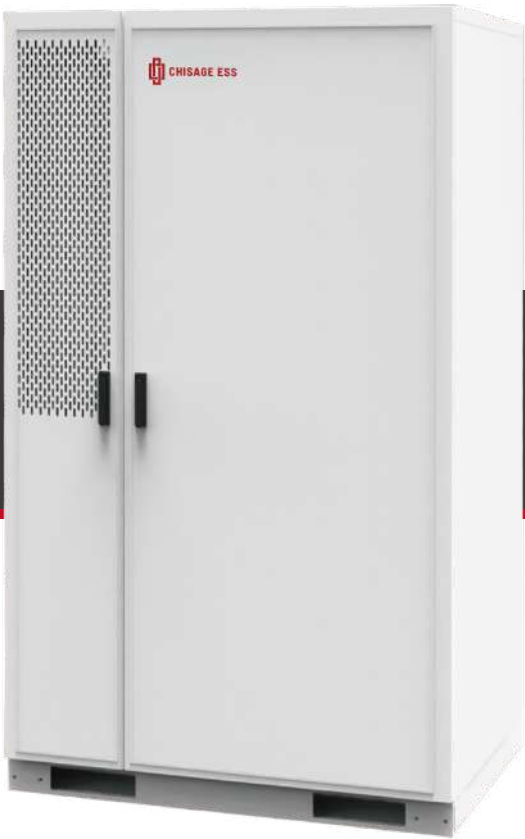
- Multi-level fuse protection, interlock design
- Safe LiFePO4 battery
- High usable energy ratio, less self-consumption
- Without toxic heavy metals or caustic materials
- Built-in forklift location and hoisting position make transportation and installation easier
- Internal modular & double-door design makes maintenance easier

Technical Data

Model	CE100200-B
DC Parameter (Battery)	
Battery Type	LFP/280Ah
Series and Parallel	1P224S
Rated Capacity (Ah)	280
Rated Voltage (V)	716.8
Rated Energy (kWh)	200.7
Continuous Charge/Discharge Current (A)	0.5C
Cycle Life	6,000 cycles, 70%EoI @25°C 0.5C
AC Parameter	
Rated Voltage (V)	400, 3 phase
Voltage Range (V)	320~440
Frequency (Hz)	50/60
THD	<3% (rated power)
Rated Charge PoWer (kW)	100
Rated Discharge PoWer (kW)	100
Power Factor	0.8 lagging ~ 0.8 leading
Efficiency	
Max. Charge Efficiency	94.00%
Max. Discharge Efficiency	94.00%
Protection	
Anti Reverse for Battery Connection	Yes
DC Overcurrent Protection	Yes
AC Overcurrent Protection	Yes
AC Overvoltage Protection	Yes
General	
PCS Operation Temperature Range (°C)	-25~+60
Protection Degree	IP54
Cooling	Air conditioner + Air cooling
Denmension (mm)	2,203W×1,150D×1,850H
Weight (kg)	About 2,500kg
Firefighting	Perfluorohexanone

C&I ESS

CE-186372



Product Features

- **High safety** : Industry-leading lithium iron phosphate battery with high efficiency and safety to extend cycle life
- **Small size** : Highly integrated system with compact design for land saving
- **Better stability** : Integrated liquid-cooling temperature control system makes the temperature difference stable, system safe and reliable
- **Excellent transportability** : Modular design makes transportation fast and installation easy
- **Intelligent** : Deep learning of system algorithm, real-time collection of status information of each component, intelligent terminal display
- **Easy to operate and maintain** : System self-diagnostic function, support remote operation and upgrade, save operation and maintenance cost

Technical Data

Model	CE-186372
Battery Cell	LFP3.2V/280Ah
Configuration	1P416S
Nominal Voltage (V)	1331.2
Nominal Capacity (kWh)	372.7
Max. Charge/Discharge Ratio	≤0.5P
Protection Degree	IP54
Dimension (mm)	1,300L×1,300W×2,360H
Weight (kg)	≈3,500
Operation Temperature Range(°C)	-30~50,>45 Derating
Operation Humidity Range	0~95%(No Condensing)
BMS Communication Interface	RS485,CAN,Ethernet
Max. Operating Altitude (m)	5,000 (2,000 Derating)
Firefighting	Aerosol / Heptafluoropropane / Perfluorohexanone (Optional)
Heat Management	Intelligent liquid cooling

09

CONTAINER BESS

P67	CEI66280-L-H
P69	CESS-3354/6709L



CHISAGE ESS

Liquid Cooling Battery

CEI66280-L-H



Product Features

- 30% higher energy density than air cooling system, decrease installation area
- Smart liquid cooling temperature control system, decrease 20% auxiliary power supply, save operation cost
- IP65 dual firefighting and anti-explosion design
- Low-temperature difference to 3°C, extend battery lifetime
- Realtime battery state monitoring, dynamic adjustment of energy management strategy

Technical Data

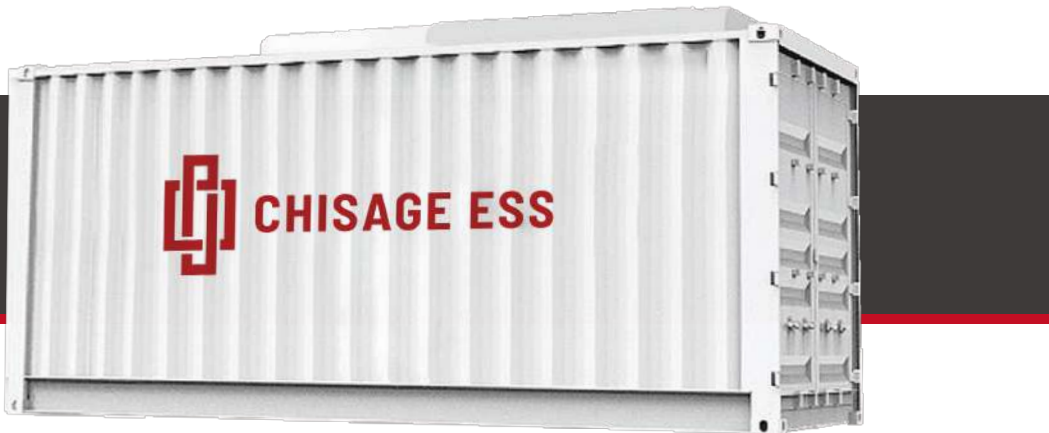
Model	CEI66280-L-H
Cell Capacity (Ah)	280
Norminal Voltage (V)	166.4
Nominal Energy (Wh)	46,592
Usable Energy (Wh)	41,933
Operation Voltage Range (V)	135.2~187.2
Standard Charge Current (A)	140
Standard Discharge Current (A)	140
Max. Charge Current (A)	140
Max. Discharge Current (A)	140
Temperature Range	Charge Temperature: 0~55°C Discharge Temperature: -20~55°C
Operation Humidity	20~95%RH (No condensing)
Protection Degree	IP65
Dimension (mm)	808W×1,172D×242H
Net Weight (kg)	350
Certification	CE, UN38.3

Battery Rack

Connection Series	IP52S×8
Norminal Voltage (V)	1,331
Nominal Energy (kWh)	372.7
Usable Energy (kWh)	335.5
Operation Voltage Range (V)	1,081.6~1,497.6@ (0~55°C)
Standard Charge Current (A)	140
Standard Discharge Current (A)	140
Max. Charge Current (A)	140
Max. Discharge Current (A)	140
Dimension (mm)	925W×1,180D×2,390H
Approximate Weight (kg)	3,000
Life Cycles	6,000 cycles@80% DoD
Waranty	5 years

Liquid Cooling Bess

CESS-3354/6709L



Product Features

- 30% higher energy density than air cooling system, decrease installation area
- Smart liquid cooling temperature control system, decrease 20% auxiliary power supply, save operation cost
- IP67 dual firefighting and anti-explosion design
- Centrally symmetrical layout design, liquid cooling units are mutually backup
- Low-temperature difference to 3°C, extend battery lifetime
- Realtime battery state monitoring, dynamic adjustment of energy management strategy

Technical Data

Storage System		
Model	CESS-3354L	CESS-6709L
Battery Cell	LFP-280Ah	
Nominal Voltage (V)	1,331.20	
Operation Voltage Range (V)	1,164.8~1,497.6	
Nominal Capacity (MWh)	3,354	6,709
Nominal Charge Ratio	≤0.5C	
Nominal Discharge Ratio	≤0.5C	
Protection Degree	IP54 (Battery pack IP67)	
Dimension (mm)	6,058W×2,600H×2,896D	12,192W×2,600H×2,896D

10

PORTABLE POWER STATION

P71

CE-P600CS
CE-P1000CS

CHISAGE ESS

Portable Power Station

CE-P600CS
CE-P1000CS



Product Features

- 100W high power PD output
- Safety LiFePO4 battery built inside
- DC/PV input with MPPT function to charge the battery
- High power factor portable inverter with pure sine wave output
- Bi-directional inverter that supports AC fast charging within 90mins to full capacity
- Smart drive mode support 600/1000W+ high power resistance load operation

Technical Data

Model	CE-P600CS		CE-P1000CS	
Battery				
Battery Type	LiFePO4			
Battery Nominal Voltage (V)	22.4			
Battery Operation Voltage (V)	18.2~26			
Battery Nominal Capacity (Wh)	672		1,008	
Nominal Charge Current (A)	25		36	
Nominal Discharge Current (A)	30		45	
Max. Discharge Current (A)	30		45	
Life Cycles	>2,000@25°C, 1C discharge			
AC Input				
AC Charge Power (W)	480		800	
Nominal Voltage (V)	110	220	110	220
Voltage Range (V)	90~140	180~260	90~140	180~260
Nominal Frequency (Hz)	60	50	60	50
Frequency Range (Hz)	55~65	45~55	55~65	45~55
Power Factor	>0.99@max. charging power			
DC Input				
Max. Car Charge Input Power (W)	120			
Max. Solar Charge Input Power (W)	200			
DC Input Voltage Range (V)	10~30			
Max. DC Input Current (A)	10			
AC Output				
Nominal AC Power (W)	600		1,000	
Surge Power (W)	1,800		3,000	
Nominal Grid Voltage (V)	110	220	110	220
Nominal Grid Frequency (Hz)	60	50	60	50
Nominal AC Current (A)	5.5	2.7	9	4.5
DC Output				
USB-A (x1)	5V/2.4A			
QC3.0 (x2)	5V/2.4A, 9V/2.4A, 12V/2.4A			
USB-TypeC (x2)	5V/5A, 9V/5A, 12V/5A, 20V/5A			
Car Port (x1)	13.6V/10A			
DC Port (x2)	13.6V/10A			
Car & DC Port Total Max. Power (W)	136			
Wireless Charger	10W			
LED Light	3W			
Efficiency				
Max. Battery to AC Efficiency (%)	92.5	93.0	92.5	93.0
Max. AC to Battery Efficiency (%)	92			
General Data				
Dimension (mm)	340W×198D×272H			
Weight (kg)	9.5		11.1	
Cooling	Forced air cooling			
Operation Temperature Range (°C)	0~45(charge), -20~55(discharge)			
Operation Relative Humidity (RH(%))	0~95, Non condensation			
Protection Degree	IP20			
Noise (dB)	<65			
Communication Interface	WiFi			
Display	LCD			
Protection	AC output over current, AC output short circuit, AC charging over current, AC output over/under voltage, AC output over/under frequency, Inverter over temperature, AC charging over/under voltage, Battery temperature high/low, Battery over/under voltage			



CHISAGE ESS CLOUD

P73 WiFi Plug

WiFi+BLE

Circular Connector



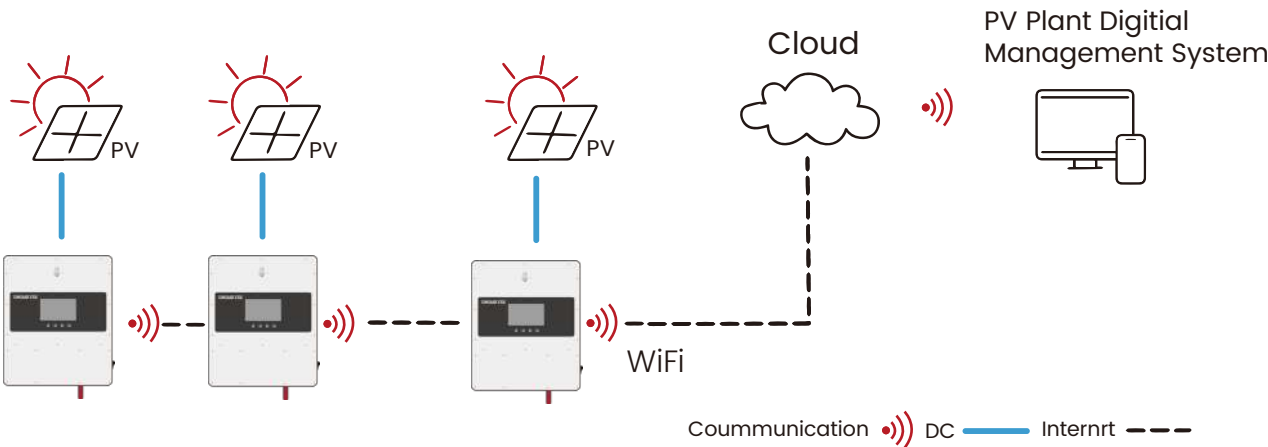
Chisage residential monitoring solution takes great care to ensure that your PV system is in excellent operation. It has been developed to help you get the most out of your Chisage inverter. Tailored for customers and installers, it gives you complete control. Gaining access to features such as the update / upgrade feature, remote programming.

Users can easily access the monitoring page via PC web or phone APP.

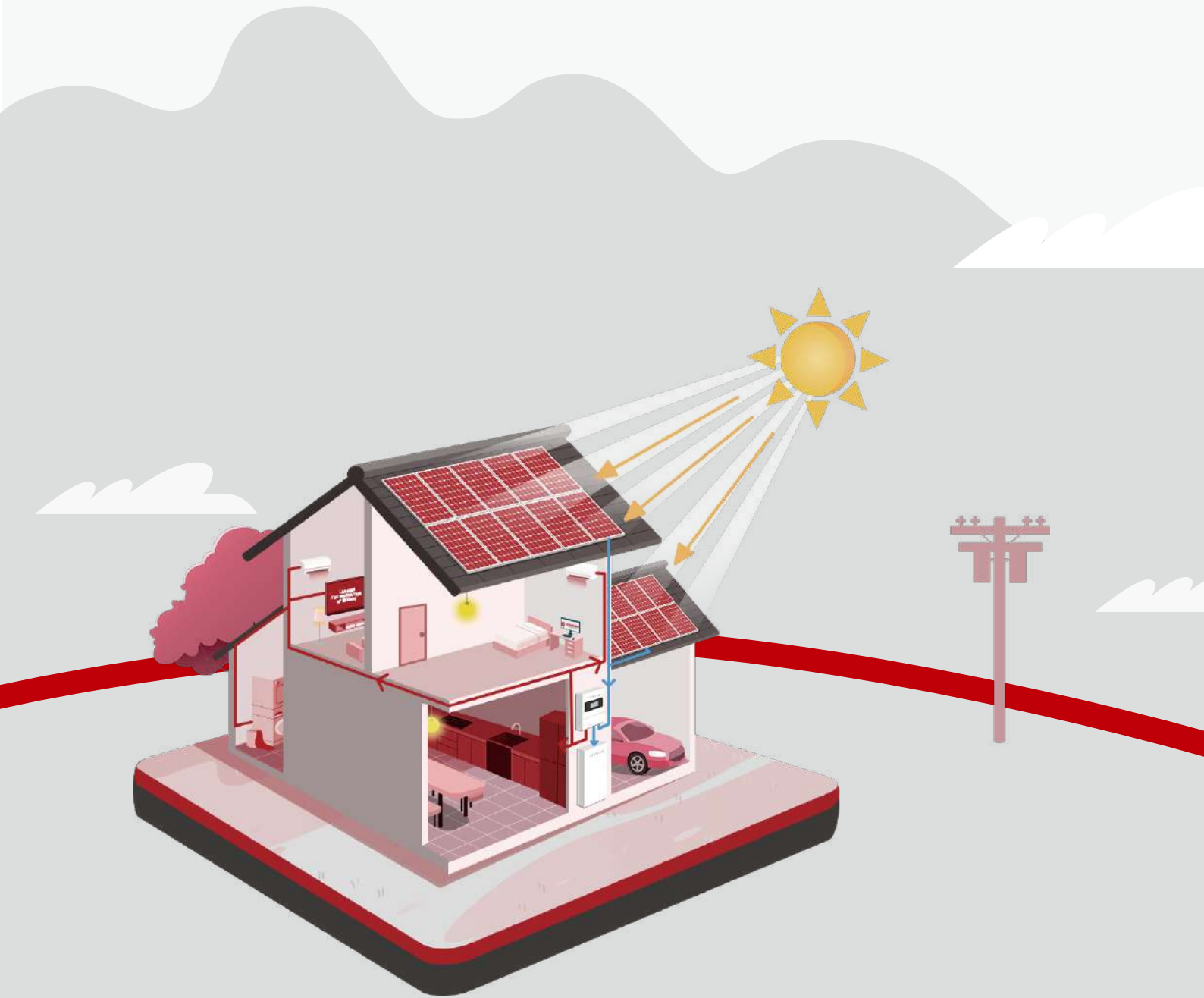
Product Features

- Plug & Play
- Remote Maintenance
- Secure Encryption
- Quick Disassembly Design
- Breakpoint Continuation
- Outdoor Feasibility
- Local Maintenance

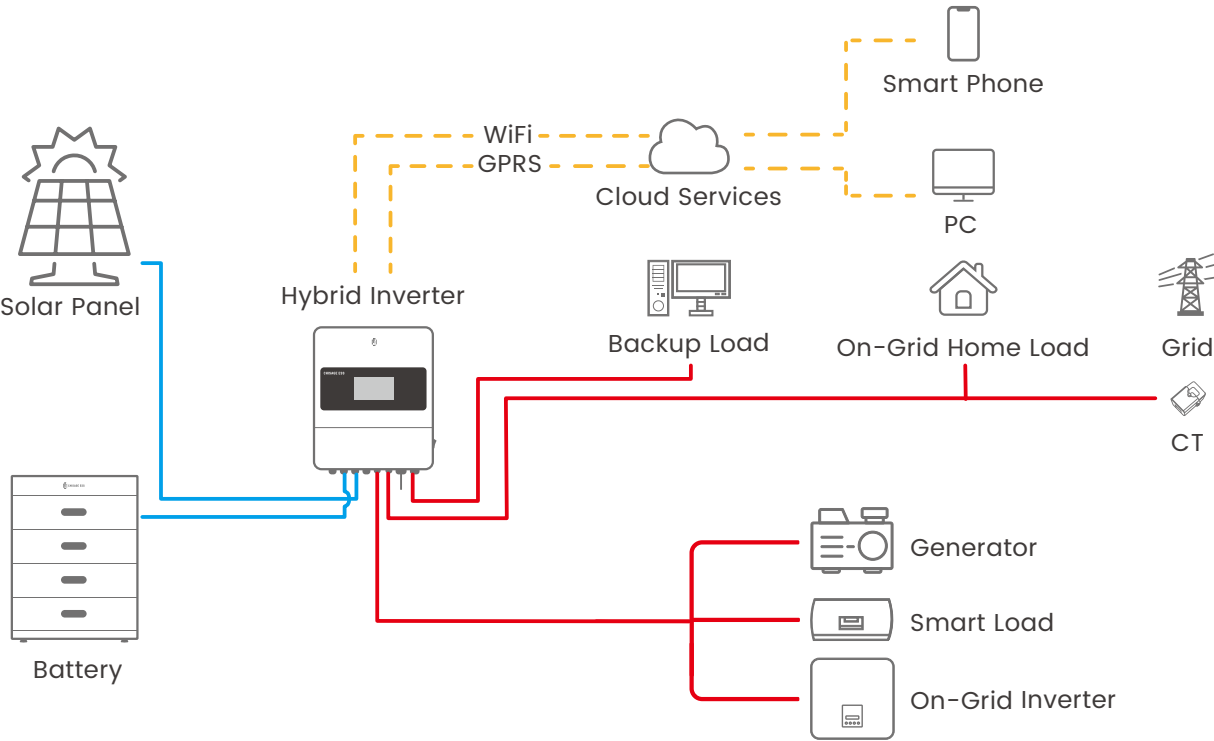
Technical Data	
Product Model	Magpie(Wi-Fi+BLE)
Electrical	
Supply Voltage	DC 5V - 12V
Current consumption	Max. 550mA; Avg. 120mA
Wi-Fi	
Standrod	802.11 b/g/n
Security Mode	WPA/WPA2/WPA2-Enterprise
Operating Mode	Station/AP/Station + AP
Antenna	Built-in
Others	802.11 n(2.4 GH2) up to 150Mbps
Bluetooth	
Standard	V4.2
Antenna	Built-in
Interface	
Physical Interface	Circular Connector
Electrical Interface	RS485-HD / RS232 / Uart TTL
Communication Parameters	9600bps 8/N/1 (Default)
LED Indicator	
DEV	Device Communication Indicator
NET	Network Communication Indicator
Mechanical	
Dimension (Bare Device)	98,0 24,0 24,0 mm
Weight	About 40g -48g
Installation	Plug-in-out
Environmental	
Operating temperature range	-20°C~+60°C
Relative Humility(non-condensing)	0%-100%
Maintenance	
Upgrading Methods	OTA / Webserver / Bluetooth
Inverter Upgrading	Remote / Local
Parmenters Setup	Remote / Local
Others	
Degree of Protection	IPX7
Flame Retardant Rating	UL94 V-0
Anti-UV	F1



SYSTEM SOLUTION



Chisage ESS On/Off Grid Solar Hybrid Home System

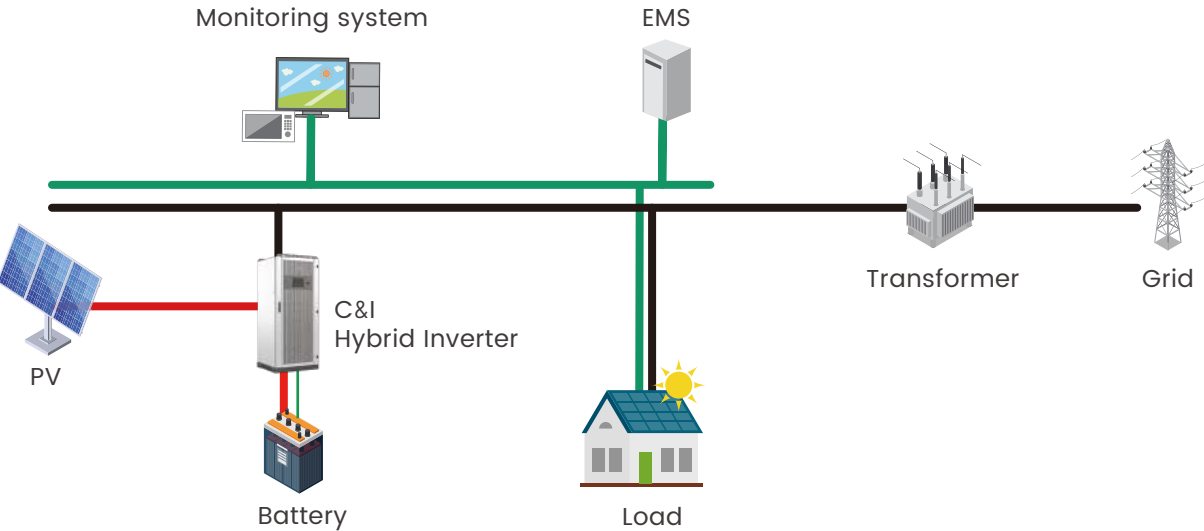


Product Features

- Wall mounted & rack battery wait for your choose, meet different requirements
- Support lithium battery active function, easier battery maintenance
- IP65 inverter protection degree
- Support on-grid & off-grid modes
- Support generator function
- AC couple function available with grid connected inverter
- Smart meter, WiFi datalogger optional, monitor your load consumption 24 hours

Chisage ESS C&I Solar Hybrid Solution

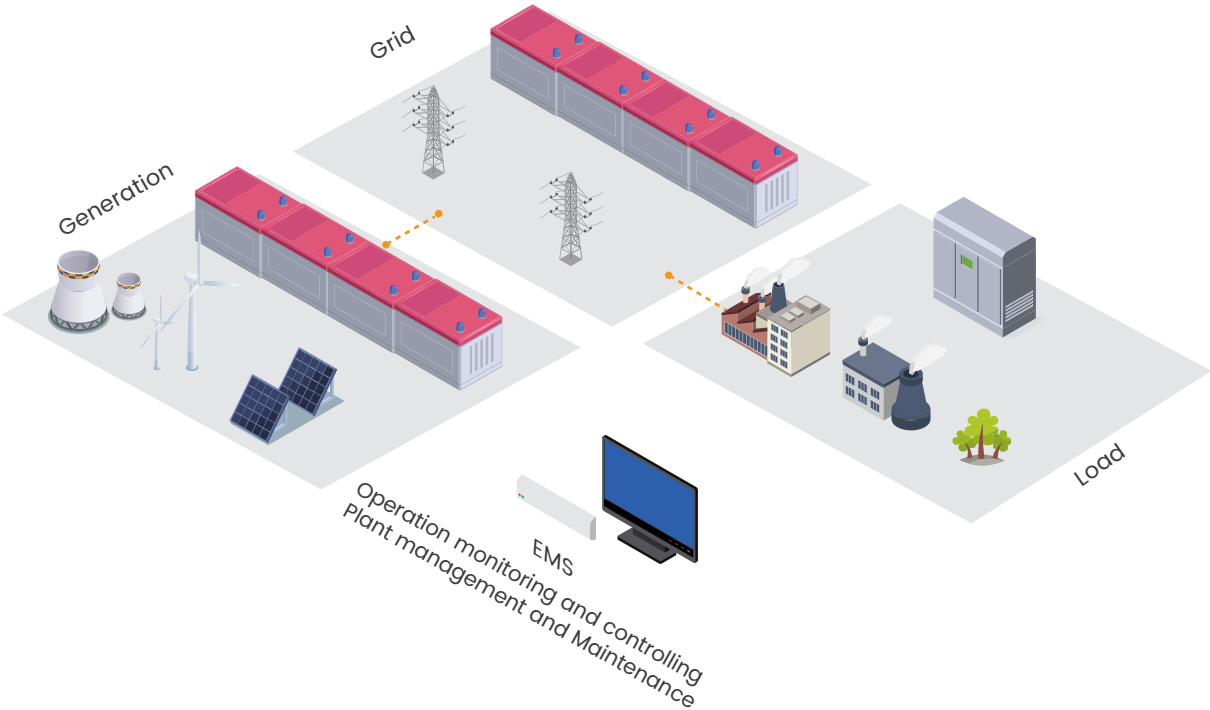
— DC Line
— AC Line
— Communication Line



Product Features

- Reactive power compensation and APF
- With strong load adaptability and reliability
- Peak shaving and valley filling
- Integrate energy management system

Chisage ESS Smart Micro Grid Solution



Product Features

- Support both DC couple and AC couple solutions
- Support both BTM and FTM systems controlled by smart EMS, self-consumption, peak shaving and valley filling, voltage and frequency regulation etc.

PROJECT REFERENCE



Application:
Inverter -- Mars-12G1-LE
Solar Panel -- CE410-27V-MH

Time: May, 2023
Address: Lebanon
Capacity: 12kW/10kWh



Application:
Inverter -- Mars-12G1-LE
Solar Panel -- CE410-27V-MH

Time: June, 2023
Address: South Africa
Capacity: 12kW/10kWh



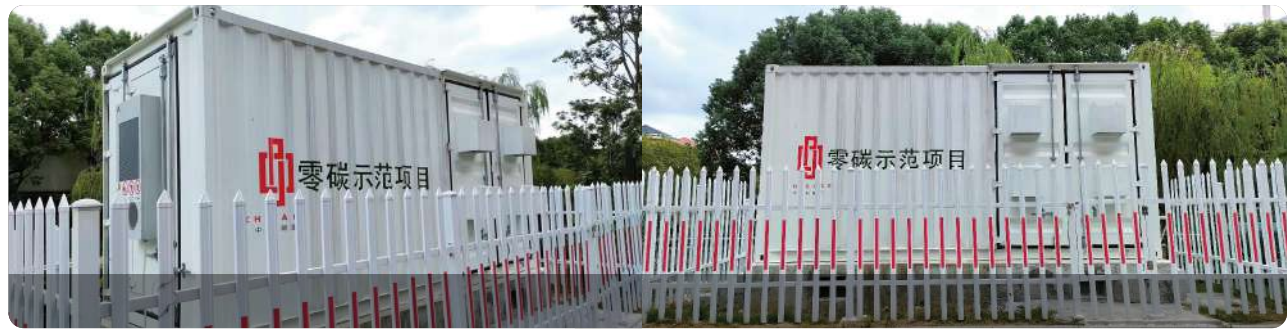
Application:
CE -- 2501300

Time: December, 2021
Address: Ningbo, China
Capacity: 250kW/1.3MWh



Application:
Inverter -- CE100200-B
Solar Panel -- CE450-36V-MH

Time: Jun, 2021
Address: Jintan, Jiangsu, China
Capacity: 100kW/200kWh



Application:
CE -- 100200

Time: Jun, 2022
Address: Ningbo, China
Capacity: 100kW/200kWh



Application:
Inverter -- CE0050
Solar Panel -- CE450-36V-MH
Battery -- CE76120-160

Time: October, 2021
Address: Myanmar
Capacity: 60kW/160kWh