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Shenzhen Factory (Pingshan)

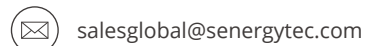
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Your Trusted Solar Inverter and Storage ODM Partner



Who **We** Are

Parent Company

APD

**A Leader in Power Electronics
and Renewable Energy Technology**

Asian Power Devices (APD) was founded in 1994. It focuses on power electronics and renewable energy technologies. It has earned an important position in the global market thanks to its world-class technologies, competitive products, and outstanding service.

APD's products consist of power supplies, UPS, and PV inverters. Besides focusing on key technology development and pursuing highly efficient production and service, APD is committed to continuous development and sustainable operations. Our ambition is to become a technology leader in the global markets for power electronics and renewable energy and help people achieve a green future with highly efficient and energy-saving technologies.



Subsidiary

Senergy

**A Leading ODM Service Supplier of
PV Inverters and Energy Storage Solutions**

Shenzhen Senergy Technology Co., Ltd. is a leading high-tech solar energy company specializing in ODM service for PV grid-tied and hybrid inverters. With 30+ years of expertise in electronic power industry, Senergy has garnered 20+ years of dedicated experience in inverter R&D and manufacturing. Its solar PV and energy storage solutions are widely applied in residential, commercial and industrial, and utility-scale power stations worldwide.

With manufacturing capacity reaching 12GW, Senergy is equipped with strong R&D and manufacturing capabilities, enabling the delivery of cutting-edge inverter products and solutions to meet the evolving demands of the global energy market.



1st plant (YM)
established in Shenzhen

2nd plant (DK) established
in Shenzhen

New generation of grid-tied
PV inverters launched

➤ Certified as China's "National
High-Tech Enterprise"
➤ 1GW inverters delivered
annually

➤ U.S. model product launched
➤ Pingshan factory established
with 10GW manufacturing
capacity

Shenzhen Apollo
Factory and Vietnam
factory established



APD Group founded
in Taipei

Renewable Energy
Business set up

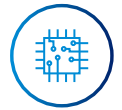
Senergy Technology
founded

Obtained CMMI Product
Engineering Management
Certification

➤ Hybrid inverters
launched
➤ PrimeVOLT shipments
ranked first in Taiwan

➤ Bao'an R&D Center
tripled in size

Why Choose Us



R&D

- › Drive innovation in PV and energy storage inverters with a team of PhD experts and top engineers
- › Leverage IPD, CMMI, and DFSS to build an agile & efficient product development system with customized solutions
- › Implement thorough testing from components to systems to ensure high quality and reliability



Quality Control

- › Advanced TQM & GP systems in product development process for high reliability
- › Stringent process inspections in production to ensure consistent excellence
- › Proven manufacturing expertise trusted by global industry-leading brands



Manufacturing

- › Production facilities in Taipei, Shenzhen, and Vietnam
- › Advanced processes & automation to deliver efficient and reliable production
- › Rapid line changeovers and flexible production to deliver customized solutions
- › SKD solutions available

Taipei

Shenzhen

Vietnam

3

R&D Centers
(Shenzhen & Taipei)



4

Factories
(Shenzhen, Taipei & Vietnam)



10^{GW}

Per Year
Manufacturing Capacity



120+

Patents



Our Expertise in Customized Solutions

30+ Years of ODM Expertise
in Power Electronic Products



Rapid Customization
Management System



Flexible and Diverse ODM
Cooperation Process



Customized Product
Design and Accessories



Quality Control in Manufacturing Process



Grid-Tied **Inverter**

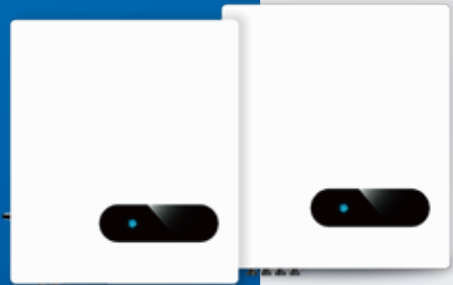
Residential Use

Single Phase
2kW-10kW



Small-Medium C&I Use

Three Phase
5kW-25kW



Medium-Large C&I Use

Three Phase
30kW-50kW
100kW-110kW

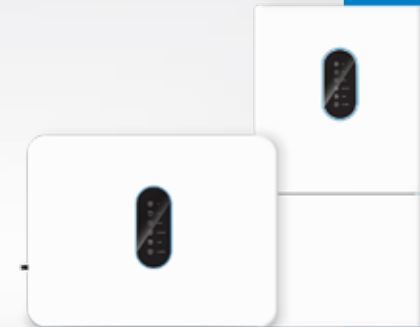
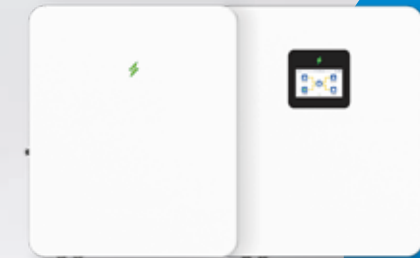


Hybrid **Inverter**

Single Phase

LV Battery
3kW-6kW-D1/LV
8kW-10kW-T/EU

HV Battery
3kW-6kW



Split Phase

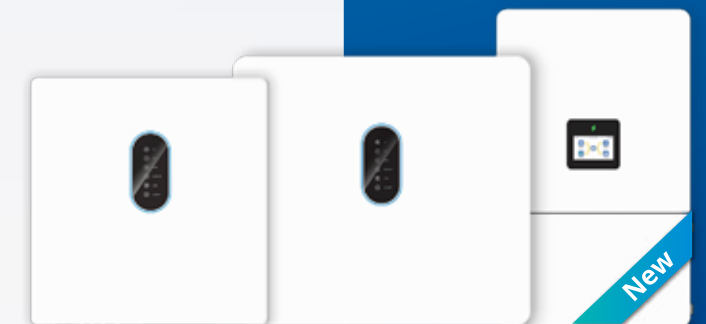
LV Battery
5kW-11.4kW-UL
11.4kW-ULP



Three Phase

LV Battery
6kW-20kW

HV Battery
5kW-10kW
12kW-30kW



ISO 9001:2015 CEI-21

Grid-Tied Inverter

SE 2/3/3.6KTL-S1/G2P

Application: Residential Use



Superior Performance

- Maximum efficiency of 97.8%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



High Reliability

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app



SINGLE
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MPPT

	SE 2KTL-S1/G2P	SE 3KTL-S1/G2P	SE 3.6KTL-S1/G2P
Efficiency			
Max. Efficiency		97.8%	
Eur. Efficiency	96.5%	96.8%	96.8%
Input (PV)			
Max. Input Voltage		500V	
Max. PV Configuration (STC)		150%	
Rated Input Voltage		360V	
Max. Input Current		15A	
Max. Short Circuit Current		20A	
Start Input Voltage		70V	
MPPT Operating Voltage Range		50V-490V	
Max. Number of PV Strings		1	
No. of MPPTs		1	
Output (Grid)			
Rated AC Active Power	2,000W	3,000W	3,600W
Max. AC Apparent Power	2,200VA	3,300VA	3,600VA
Max. AC Output Current	10A	15A	16A
Rated AC Voltage		220V/230V/240V, L+N+PE	
AC Voltage Range①		160V-300V (Adjustable)	
Rated Grid Frequency		50Hz/60Hz	
Grid Frequency Range②		45Hz-55Hz/55Hz-65Hz (Adjustable)	
THDI		<3%@Rated Power	
DC Current Injection		<0.5%@Rated Current	
Power Factor		> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)	
Protection			
DC Switch		Yes	
Anti-islanding Protection		Yes	
AC Overcurrent Protection		Yes	
AC Short Circuit Protection		Yes	
DC Reverse Protection		Yes	
Surge Arrester		DC Type III (Type II optional)/AC Type III (Type II optional)	
Insulation Detection		Yes	
Leakage Current Protection		Yes	
General			
Topology		Transformerless	
IP Rating		IP65	
Night Self Consumption		<1W (Standard)	
Cooling Method		Natural Cooling	
Operating Temperature Range		-25°C~60°C	
Relative Humidity Range		0-100%	
Max. Operating Altitude		4000m	
Dimensions (W*H*D)		320mm*344mm*137mm	
Weight		6.5kg	
HMI & COM			
Display		Wireless & APP+LED, LCD (Optional)	
Communication Interface		Optional: Wi-Fi/GPRS/RS485/LAN	
Certification			
Safety		IEC 62109-1, IEC 62109-2	
Grid Code		DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1	
Warranty		5 Years/10 Years (Optional)	

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Grid-Tied Inverter

SE 4/5/6KTL-D1/G2P

Application: Residential Use



Superior Performance

- Maximum efficiency of 98.2%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



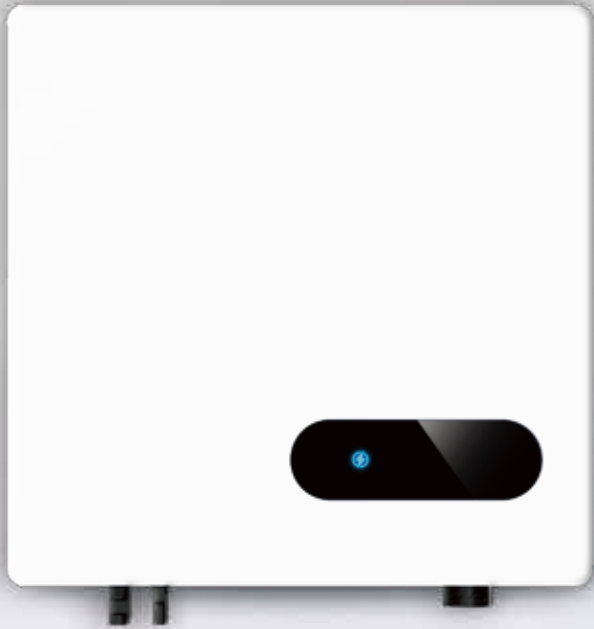
High Reliability

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app



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MPPT

	SE 4KTL-D1/G2P	SE 5KTL-D1/G2P	SE 6KTL-D1/G2P
Efficiency			
Max. Efficiency		98.2%	
Eur. Efficiency	97.0%	97.3%	97.4%
Input (PV)			
Max. Input Voltage		550V	
Max. PV Configuration (STC)		150%	
Rated Input Voltage		360V	
Max. Input Current		15A/15A	
Max. Short Circuit Current		20A/20A	
Start Input Voltage		90V	
MPPT Operating Voltage Range		70V-540V	
Max. Number of PV Strings		1/1	
No. of MPPTs		2	
Output (Grid)			
Rated AC Active Power	4,000W	5,000W	6,000W
Max. AC Apparent Power	4,400VA	5,500VA	6,000VA
Max. AC Output Current	20A	25A	27.3A
Rated AC Voltage		220V/230V/240V, L+N+PE	
AC Voltage Range①		160V-300V (Adjustable)	
Rated Grid Frequency		50Hz/60Hz	
Grid Frequency Range②		45Hz-55Hz/55Hz-65Hz (Adjustable)	
THDI		<3%@Rated Power	
DC Current Injection		<0.5%@Rated Current	
Power Factor		> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)	
Protection			
DC Switch		Yes	
Anti-islanding Protection		Yes	
AC Overcurrent Protection		Yes	
AC Short Circuit Protection		Yes	
DC Reverse Protection		Yes	
Surge Arrester		Yes	
Insulation Detection		Yes	
Leakage Current Protection		Yes	
General			
Topology		Transformerless	
IP Rating		IP65	
Night Self Consumption		< 1W (Standard)	
Cooling Method		Natural Cooling	
Operating Temperature Range		-25°C~60°C	
Relative Humidity Range		0-100%	
Max. Operating Altitude		4000m	
Dimensions (W*H*D)		350mm*347mm*137mm	
Weight		8.5kg	
HMI & COM			
Display		Wireless & APP+LED, LCD (Optional)	
Communication Interface		Optional: Wi-Fi/GPRS/RS485/LAN	
Certification			
Safety		IEC 62109-1, IEC 62109-2	
Grid Code		DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1	
Warranty		5 Years/10 Years (Optional)	

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Grid-Tied Inverter

SE 7/8/10KTL-D1P

Application: Residential Use



Superior Performance

- Maximum efficiency of 98.2%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids



High Reliability

- IP65 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations



SINGLE
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DUAL
MPPT

	SE 7KTL-D1P	SE 8KTL-D1P	SE 10KTL-D1P
Efficiency			
Max. Efficiency	98.2%		
Eur. Efficiency	97.5%		
Input (PV)			
Max. Input Voltage	550V		
Max. PV Configuration (STC)	150%		
Rated Input Voltage	360V		
Max. Input Current	20A/20A	20A/30A	20A/30A
Max. Short Circuit Current	26A/26A	26A/40A	26A/40A
Start Input Voltage	90V		
MPPT Operating Voltage Range	60V-540V		
Max. Number of PV Strings	1/1	1/2	1/2
No. of MPPTs	2		
Output (Grid)			
Rated AC Active Power	7,000W	8,000W	10,000W
Max. AC Apparent Power	7,700VA	8,800VA	10,000VA
Max. AC Output Current	35A	40A	45.5A
Rated AC Voltage	220V/230V/240V, L+N+PE		
AC Voltage Range①	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz/60Hz		
Grid Frequency Range②	45Hz-55Hz/55Hz-65Hz (Adjustable)		
THDI	<3%@Rated Power		
DC Current Injection	<0.5%@Rated Current		
Power Factor	>0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)		
Protection			
DC Switch	Yes		
Anti-islanding Protection	Yes		
AC Overcurrent Protection	Yes		
AC Short Circuit Protection	Yes		
DC Reverse Protection	Yes		
Surge Arrester	DC Type III (Type II optional)/AC Type III (Type II optional)		
Insulation Detection	Yes		
Leakage Current Protection	Yes		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	< 1W (Standard)		
Cooling Method	Natural Cooling		
Operating Temperature Range	-25°C~60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Dimensions (W*H*D)	400mm*450mm*170mm		
Weight	16kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication Interface	Optional: Wi-Fi/GPRS/RS485/LAN		
Certification			
Safety	IEC 62109-1, IEC 62109-2		
Grid Code	DE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206001/206002-1, IEC 61727/62116, ORDINANCE n°140 2022, IEEE 1547, UL 1741, AS 4777, VDE 0126-1		
Warranty	5 Years/10 Years (Optional)		

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Grid-Tied Inverter

SE 5/6/8/10/12/15KTL-D3/G2

Application: Residential & Small C&I Use



Superior Performance

- Maximum efficiency of 98.3%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids
- Compact for easy installation



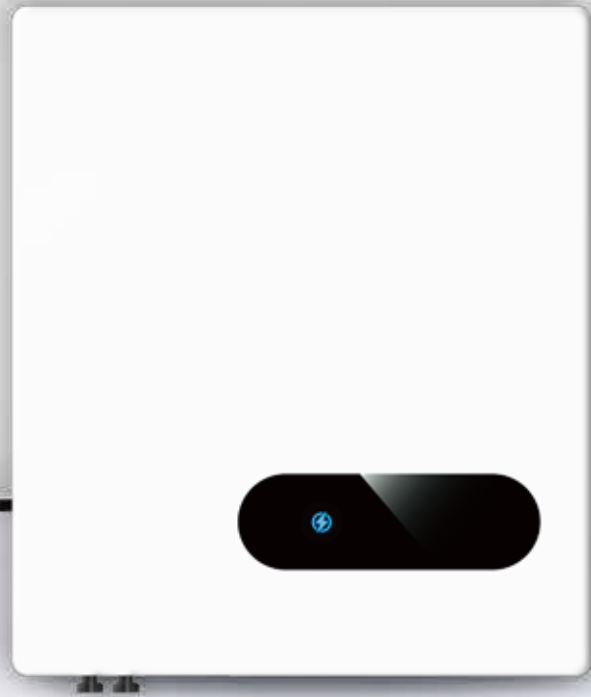
High Reliability

- IP66 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations



THREE
PHASE &
DUAL
MPPT

	SE 5KTL-D3/G2	SE 6KTL-D3/G2	SE 8KTL-D3/G2	SE 10KTL-D3/G2	SE 12KTL-D3/G2	SE 15KTL-D3/G2
Efficiency						
Max. Efficiency	98.2%	98.2%	98.2%	98.2%	98.3%	98.3%
Eur. Efficiency			97.8%			
Input (PV)						
Max. Input Voltage			1100V			
Max. PV Configuration (STC)			150%			
Rated Input Voltage			620V			
Max. Input Current	15A/15A	15A/15A	15A/15A	15A/15A	15A/30A	15A/30A
Max. Short Circuit Current	20A/20A	20A/20A	20A/20A	20A/20A	20A/40A	20A/40A
Start Input Voltage			180V			
MPPT Operating Voltage Range			160V-1000V			
Max. Number of PV Strings	1/1	1/1	1/1	1/1	1/2	1/2
No. of MPPTs			2			
Output (Grid)						
Rated AC Active Power	5,000W	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,200VA	13,200VA	16,700VA
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*17A	3*20.2A	3*25.3A
Rated AC Voltage			380V/400V/415V, 3W+N+PE			
AC Voltage Range①			260V-510V (Adjustable)			
Rated Grid Frequency			50Hz/60Hz			
Grid Frequency Range②			45Hz-55Hz/55Hz-65Hz (Adjustable)			
THDI			<3%@Rated Power			
DC Current Injection			<0.5%@Rated Current			
Power Factor			> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)			
Protection						
DC Switch			Yes			
Anti-islanding Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short Circuit Protection			Yes			
DC Reverse Protection			Yes			
Surge Arrester			DC Type III(Type II optional)/AC Type III(Type II optional)			
Insulation Detection			Yes			
Leakage Current Protection			Yes			
General						
Topology			Transformerless			
IP Rating			IP66			
Night Self Consumption			<1W (Standard)			
Cooling Method			Natural Cooling			
Operating Temperature Range			-25°C~60°C			
Relative Humidity Range			0-100%			
Max. Operating Altitude			4000m			
Dimensions (W*H*D)			398mm*460mm*190mm			
Weight	16.8kg	16.8kg	16.8kg	16.8kg	18.7kg	18.7kg
HMI & COM						
Display			Wireless & APP +LED, LCD (Optional)			
Communication Interface			RS485, Optional: Wi-Fi/GPRS/LAN			
Certification						
Safety			IEC 62109-1, IEC 62109-2			
Grid Code			VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, RD 1699/661&413, IEC 61727/62116, AS 4777.2			
Warranty			5 Years/10 Years (Optional)			

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Grid-Tied Inverter

SE 10/15KTL-D3/G2P, SE 17/20/22/25KTL-D3/G2

Application: Residential & Small-Medium C&I Use



Superior Performance

- Maximum efficiency of 98.4%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids
- Compact for easy installation



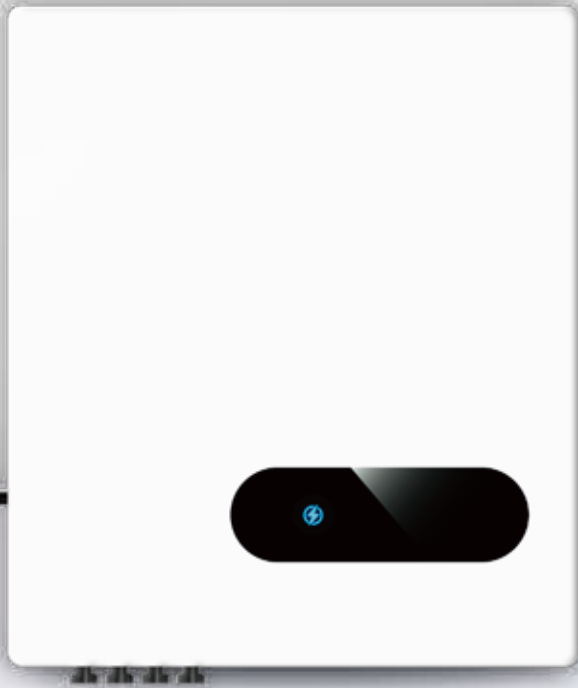
High Reliability

- IP66 protection level for outdoor installation
- Optional: DC/AC Type II SPD
- Optional: AFCI 2.0 function



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations



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MPPT

Efficiency

Max. Efficiency

Eur. Efficiency

Input (PV)

Max. Input Voltage

Max. PV Configuration (STC)

Rated Input Voltage

Max. Input Current

Max. Short Circuit Current

Start Input Voltage

MPPT Operating Voltage Range

Max. Number of PV Strings

No. of MPPTs

Output (Grid)

Rated AC Active Power

Max. AC Apparent Power

Max. AC Output Current

Rated AC Voltage

AC Voltage Range①

Rated Grid Frequency

Grid Frequency Range②

THDI

DC Current Injection

Power Factor

Protection

DC Switch

Anti-islanding Protection

AC Overcurrent Protection

AC Short Circuit Protection

DC Reverse Protection

Surge Arrester

Insulation Detection

Leakage Current Protection

General

Topology

IP Rating

Night Self Consumption

Cooling Method

Operating Temperature Range

Relative Humidity Range

Max. Operating Altitude

Dimensions (W*H*D)

Weight

HMI & COM

Display

Communication Interface

Certification

Safety

Grid Code

Warranty

	SE 10KTL-D3/G2P	SE 15KTL-D3/G2P	SE 17KTL-D3/G2	SE 20KTL-D3/G2	SE 22KTL-D3/G2	SE 25KTL-D3/G2
Max. Efficiency	98.4%					
Eur. Efficiency	97.8%	98.0%	98.0%	98.0%	98.0%	98.0%
Max. Input Voltage	1100V					
Max. PV Configuration (STC)	150%					
Rated Input Voltage	620V					
Max. Input Current	15A/30A	30A/30A	30A/30A	30A/30A	30A/30A	30A/30A
Max. Short Circuit Current	20A/40A	40A/40A	40A/40A	40A/40A	40A/40A	40A/40A
Start Input Voltage	180V					
MPPT Operating Voltage Range	160V-1000V					
Max. Number of PV Strings	1/2	2/2	2/2	2/2	2/2	2/2
No. of MPPTs	2					
Rated AC Active Power	10,000W	15,000W	17,000W	20,000W	22,000W	25,000W
Max. AC Apparent Power	11,000VA	16,500VA	18,700VA	22,000VA	24,200VA	27,500VA
Max. AC Output Current	3*16.8A	3*25.3A	3*28.6A	3*33.7A	3*37A	3*39.8A
Rated AC Voltage	380V/400V/415V, 3W+N+PE					
AC Voltage Range①	260V-510V (Adjustable)					
Rated Grid Frequency	50Hz/60Hz					
Grid Frequency Range②	45Hz-55Hz/55Hz-65Hz (Adjustable)					
THDI	<3%@Rated Power					
DC Current Injection	<0.5%@Rated Current					
Power Factor	> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)					
DC Switch	Yes					
Anti-islanding Protection	Yes					
AC Overcurrent Protection	Yes					
AC Short Circuit Protection	Yes					
DC Reverse Protection	Yes					
Surge Arrester	DC Type III (Type II optional)/AC Type III (Type II optional)					
Insulation Detection	Yes					
Leakage Current Protection	Yes					
Topology	Transformerless					
IP Rating	IP66					
Night Self Consumption	<1W (Standard)					
Cooling Method	Natural Cooling	Smart Cooling	Smart Cooling	Smart Cooling	Smart Cooling	Smart Cooling
Operating Temperature Range	-25°C~60°C					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Dimensions (W*H*D)	398mm*460mm*190mm					
Weight	18.7kg	20.1kg	20.1kg	20.1kg	20.3kg	20.3kg
Display	Wireless & APP +LED, LCD (Optional)					
Communication Interface	RS485, Optional: Wi-Fi/GPRS/LAN					
Safety	IEC 62109-1, IEC 62109-2					
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, RD 1699/661&413, IEC 61727/62116, AS 4777.2					
Warranty	5 Years/10 Years (Optional)					

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Grid-Tied Inverter

SE 30KTL-T3/G2, SE 50KTL-Q3/G2

Application: Commercial & Industrial Sites



Superior Performance

- Maximum efficiency of 98.6%
- Large string current, compatible with large PV modules
- 30kW with natural cooling design



High Reliability

- IP66 protection level for outdoor installation
- DC/AC Type II SPD
- Optional: AFCI 2.0, Night SVG, I/V detection, and integrated PID



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- String level current detection



THREE
PHASE &
MULTIPLE
MPPT

	SE 30KTL-T3/G2	SE 50KTL-Q3/G2
Efficiency		
Max. Efficiency	98.5%	98.5%
Eur. Efficiency	98.0%	97.9%
Input (PV)		
Max. Input Voltage	1100V	
Max. PV Configuration (STC)	150%	
Rated Input Voltage	620V	
Max. Input Current	32A/32A/40A	32A/32A/32A/40A
Max. Short Circuit Current	45A/45A/50A	45A/45A/45A/50A
Start Input Voltage	200V	
MPPT Operating Voltage Range	180V-1000V	
Max. Number of PV Strings	2/2/2	2/2/2/2
No. of MPPTs	3	4
Output (Grid)		
Rated AC Active Power	30,000W	50,000W
Max. AC Apparent Power	33,400VA	55,600VA
Max. AC Output Current	3*51A	3*84.3A
Rated AC Voltage	380V/400V/415V, 3W+N+PE	
AC Voltage Range①	320V-520V (Adjustable)	
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range②	45Hz-55Hz/55Hz-65Hz (Adjustable)	
THDI	<3%@Rated Power	
DC Current Injection	<0.5%@Rated Current	
Power Factor	> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)	
Protection		
DC Switch	Yes	
Anti-Islanding Protection	Yes	
AC Overcurrent Protection	Yes	
AC Short Circuit Protection	Yes	
DC Reverse Protection	Yes	
Surge Arrester	DC Type II/AC Type II	
Insulation Detection	Yes	
Leakage Current Protection	Yes	
PV String Monitoring	Optional	
Consumption Monitoring	Optional	
General		
Topology	Transformerless	
IP Rating	IP66	
Night Self Consumption	<1W (Standard)	
Cooling Method	Natural Cooling	Smart Cooling
Operating Temperature Range	-25 C -60 C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Dimensions (W*H*D)	635mm*530mm*224mm	635mm*530mm*224mm
Weight	36kg	42kg
HMI & COM		
Display	Wireless & APP+LED, LCD (Optional)	
Communication Interface	RS485, Optional: Wi-Fi/GPRS/LAN	
Certification		
Safety	IEC 62109-1, IEC 62109-2	
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, RD 1699/661&413, IEC 61727/62116, CQC	
Warranty	5 Years/10 Years (Optional)	

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Grid-Tied Inverter

SE 100/110KTL-M3

Application: Commercial & Industrial Sites



Superior Performance

- Maximum efficiency of 98.6%
- Large string current, compatible with large PV modules
- 9 MPPT, fuse-free design technology



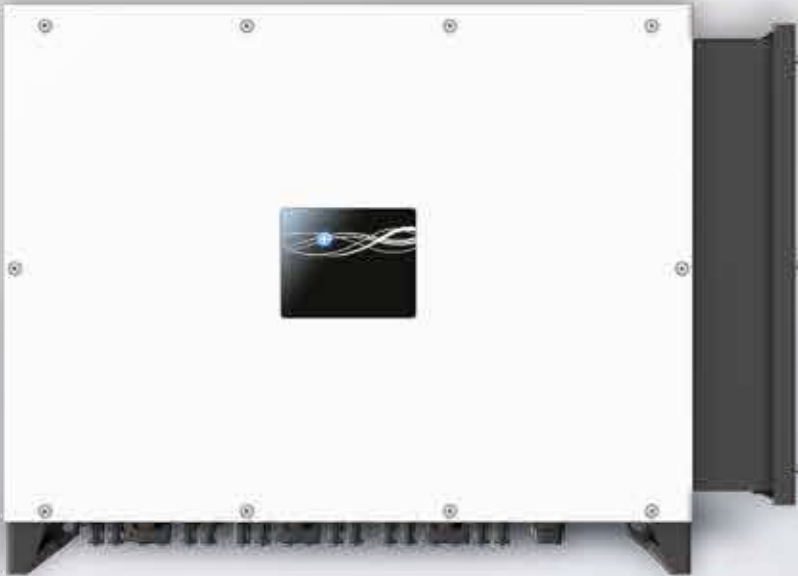
High Reliability

- IP66 protection level for outdoor installation
- Replaceable DC/AC Type II SPD
- Optional: AFCI 2.0, Night SVG, I/V detection, and integrated PID



Intelligent Maintenance

- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- String level current detection



THREE
PHASE &
MULTIPLE
MPPT

Efficiency	
Max. Efficiency	98.5%
Eur. Efficiency	98.0%
Input (PV)	
Max. Input Voltage	1100V
Max. PV Configuration (STC)	150%
Rated Input Voltage	620V
Max. Input Current	5*32A/3*40A
Max. Short Circuit Current	5*45A/3*50A
Start Input Voltage/Min. Operating Voltage	250V/200V
MPPT Operating Voltage Range	200V-1000V
Max. Number of PV Strings	8*2
No. of MPPTs	8
Output (Grid)	
Rated AC Active Power	100,000W
Max. AC Apparent Power	111,000VA
Max. AC Output Current	3*168.8A
Rated AC Voltage	400V, 3W+N+PE
AC Voltage Range①	320V-520V (Adjustable)
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range②	45Hz-55Hz/55Hz-65Hz (Adjustable)
THDI	<3%@Rated Power
DC Current Injection	<0.5%@Rated Current
Power Factor	>0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)
Protection	
DC Switch	Yes
Anti-Islanding Protection	Yes
AC Overcurrent Protection	Yes
AC Short Circuit Protection	Yes
DC Reverse Protection	Yes
Surge Arrester	DC Type II/AC Type II
Insulation Detection	Yes
Leakage Current Protection	Yes
AFCI 2.0	Optional
PID Recovery	Optional
PV String Monitoring	Yes
Consumption Monitoring	Optional
General	
Topology	Transformerless
IP Rating	IP66
Night Self Consumption	<10W (Standard)
Cooling Method	Smart Cooling
Operating Temperature Range	-25°C~60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m
Dimensions (W*H*D)	936mm*678mm*365mm
Weight	91.5kg
HMI & COM	
Display	Wireless & APP+LED, LCD (Optional)
Communication Interface	RS485, Optional: Wi-Fi/GPRS/LAN
Certification	
Safety	IEC 62109-1, IEC 62109-2
Grid Code	EN 50549-1/-2, IEC 61727/62116, VDE-AR-N 4105, CEI 0-21/16, UNE 206006/206007-1, UNE 217001
Warranty	5 Years/10 Years (Optional)

Remarks: · ①②The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 3/3.6/3.68/4.6/5/6KHB-D1/LV

Application: Residential Use



Excellent Performance

- Support high power PV panel with 18A PV input current
- Max battery charge/discharge current of 135A
- Continuous 110% of nominal AC power



Safety & Reliability

- IP65: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Multiple built-in protections



High Flexibility

- Support 40-65V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support generator/smart load/AC coupling
- Plug and play for easy installation



Intelligent Maintenance

- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling
- 4.3" LCD color touchscreen, easy to operate

SINGLE PHASE & LV BATTERY

SE 3KHB-D1/LV	SE 3K6HB-D1/LV	SE 3K68HB-D1/LV	SE 4K6HB-D1/LV	SE 5KHB-D1/LV	SE 6KHB-D1/LV
97.3%					
96.8%					
10,000W					
550V					
90V					
70V-540V					
18A/18A					
25A/25A					
2					
1/1					
Lithium-ion/Lead-acid					
48V					
40V-65V					
75A/75A	75A/75A	75A/75A	110A/110A	110A/110A	135A/135A
4,000W/4,000W	4,000W/4,000W	4,000W/4,000W	5,500W/ 5,500W	5,500W/ 5,500W	6,600W/ 6,600W
3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
3,300VA	3,960VA	3,680VA	4,600VA	5,500VA	6,600VA
3,300W	3,960W	3,680W	4,600W	5,500W	6,600W
15A	18A	16.7A	21A	25A	28.7A
7,500W	7,500W	7,500W	9,000W	9,000W	9,000W
34A	34A	34A	41A	41A	41A
220V/230V/240V, L+N+PE					
150V-300V (Adjustable)					
50Hz/60Hz					
45Hz-55Hz/55Hz-65Hz (Adjustable)					
> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					
<3% @ R Load					
3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	16.7A/16.0A/15.3A	20.9A/20.0A/19.2A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
120% @ 1min					
200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	166% @ 10s
220V/230V/240V, L+N+PE					
50Hz/60Hz					
<10ms (Typical)					
<3% @ R Load					
Class I					
Yes					
Yes					
Yes					
DC Type II, AC Type III					
Yes					
Yes					
DC Type III, AC Type III (Type II Optional)					
Yes					
Yes					
4,000m (>2,000m derating)					
IP65					
-25°C~60°C (>45°C derating)					
0~100%					
Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Smart Cooling
Wall Bracket					
377mm*452mm*206mm					
20kg					
LED, LCD (Optional)					
RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI ,USB (for Wi-Fi/LAN,optional)					
IEC 61727/62116/61683/60068, G98/G99/G100, VDE4105, EN50549-1/-10, CEI 0-21, C10/11					
IEC/EN 62109-1&2					
IEC/EN 61000/62920					
5 Years/10 Years (Optional)					

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 8/10KHB-T/EU

Application: Residential Use



Excellent Performance

- Up to 150% usable PV power with 3 MPPTS
- Maximum battery charge/discharge current of 210A
- Continuous 110% of nominal AC power



Safety & Reliability

- IP65: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Multiple built-in protections and optional advanced protection



High Flexibility

- Support 40-64V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support smart load/generator/AC Coupling



Intelligent Maintenance

- Intelligent management, local & remote monitoring
- 3 application modes, mixed with battery scheduling



SINGLE
PHASE
& LV
BATTERY

	SE 8KHB-180-T/EU	SE 10KHB-210-T/EU
Efficiency	98.0%	
Max. Efficiency (PV to AC)		
Input (PV)		
Max. PV Usable Power	12,000W	15,000W
Max. PV Voltage	600V	
Start-up Voltage	90V	
MPPT Operating Voltage Range	70V-540V	
Max. Input Current per MPPT	30A/22A/22A	
Max. Short Circuit Current per MPPT	40A/30A/30A	
String per MPPT	2/2/2	
Nos. of MPPT	3	
Input/Output (BAT)		
Battery Type	Lithium-ion/Lead-acid	
Nominal Battery Voltage	48V	
Battery Voltage Range	40V-64V	
Max. Charge/Discharge Current	210A/180A	210A/210A
Max. Charge/Discharge Power	10,000W/8,000W	10,000W/10,000W
Output (Grid)		
Nominal AC Output Power	8,000W	10,000W
Max. AC Output Apparent Power	8,800VA	11,000VA
Max. AC Output Power (PF=1)	8,800W	11,000W
Max. AC Output Current	40A	50A
Nominal Grid Voltage	220V/230V/240V, L+N+PE	
Grid Voltage Range	150V-300V (Adjustable)	
Nominal Grid Frequency	50Hz/60Hz	
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)	
Power Factor	> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)	
THDI	<3%@Rated Power	
Output (Back up)		
Nominal Output Power	8,000W	10,000W
Nominal Output Current	34.8A	43.5A
Peak Output Apparent Power (1s)	16,000VA	20,000VA
Nominal Output Voltage	220V/230V/240V, L+N+PE	
Nominal Output Frequency	50Hz/60Hz	
Transfer Time	<10ms (Typical)	
THDV	<3%@100% R Load	
Protection		
Protection Category	Class I	
DC Switch	Yes	
Anti-islanding Protection	Yes	
AC Overcurrent Protection	Yes	
DC/AC Overvoltage Protection	DC Type II, AC Type III	
AC Short Circuit Protection	Yes	
DC Reverse Protection	Yes	
Surge Arrester	DC Type II, AC Type II	
Insulation Resistance Detection	Yes	
Leakage Current Protection	Yes	
Generator	Yes	
General		
Max. Operation Altitude	4,000m (>2,000m derating)	
Ingress Protection Degree	IP65	
Operating Temperature Range	-25°C~60°C (>45°C derating)	
Relative Humidity	0~100%	
Cooling Method	Smart Cooling	
Mounting	Wall bracket	
Dimensions (W*H*D)	420mm*800mm*240mm	
Weight	39kg	
HMI & COM		
Display	Bluetooth & APP+LED, LCD (Optional)	
Communication Interface	CAN (for BMS), DRM/RS485 (for Meter), RS485, Optional: Wi-Fi/LAN	
Certification		
Safety	EN IEC 62109-1&2	
EMC	EN IEC 61000	
Grid Code	IEC 61727/62116, IEC 61683, IEC 60068, AS 4777.2, NRS 097-2-1	
Warranty	5 Years/10 Years (Optional)	

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 3/3.6/4.6/5/6KHB-D1/HV

Application: Residential Use



Excellent Performance

- Maximum efficiency of 97.8% and battery efficiency of 97.0%
- Maximum 12kW PV input power
- Maximum battery charge/discharge current of 42A



Safety & Reliability

- Key components from international renowned brands
- IP66 protection rating, ensuring adaptability to complex outdoor environment
- Multiple built-in protections, with optional AFCI 2.0



High Flexibility

- Large MPPT current, compatible with high-power solar panels
- Supporting full-house load on backup port, with maximum capacity of 12kW



Intelligent Maintenance

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
- Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings



SINGLE PHASE & HV BATTERY

SE 3KHB-D1/HV SE 3K6HB-D1/HV SE 4K6HB-D1/HV SE 5KHB-D1/HV SE 6KHB-D1/HV

Efficiency Max. Efficiency (PV to AC) European Efficiency (PV to AC)	97.8%				
	97.5%				
Input (PV) Max. PV Usable Power Max. PV Input Voltage Start-up Voltage MPPT Operating Voltage Range Max. Input Current per MPPT Max. Short Circuit Current per MPPT No. of MPP Trackers No. of Strings per MPP Tracker	12,000W				
	550V				
	90V				
	70V-540V				
	16A/16A				
	20A/20A				
	2				
Input/Output (BAT) Battery Type	1/1				
	Lithium-ion/Lead-acid				
Nominal Battery Voltage	360V				
Battery Voltage Range	80V-480V				
Max. Charge/Discharge Current	42A/42A				
Max. Charge/Discharge Power	9,000W/4,200W	9,000W/4,200W	9,000W/6,600W	9,000W/6,600W	9,000W/6,600W
Output (Grid) Nominal AC Output Power					
	3,000W	3,600W	4,600W	5,000W	6,000W
Max. AC Output Apparent Power	3,300VA	3,960VA	4,600VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,300W	3,960W	4,600W	5,500W	6,600W
Max. AC Output Current	15.0A	18.0A	21.0A	25.0A	28.7A
Nominal voltage	220V/230V/240V, L+N+PE				
Grid Voltage Range	150V-300V (Adjustable)				
Nominal Grid Frequency	50Hz/60Hz				
AC Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)				
Power Factor	> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)				
THDI	<3%@Rated Power				
Output (Back up) Nominal Output Power					
	3,000W	3,600W	4,600W	5,000W	6,000W
Nominal Output Current	13A	15.7A	20A	21.7A	26.1A
Peak Output Apparent Power (1min)	3,600VA	4,320VA	5,520VA	6,000VA	7,200VA
Peak Output Apparent Power (15s)	4,350VA	5,220VA	6,670VA	7,250VA	8,700VA
Nominal Output Voltage	220V/230V/240V, L+N+PE				
Nominal Output Frequency	50/60Hz				
Transfer Time	<10ms (Typical)				
THDV	<3%@100% R Load				
Protection Protection Category PV Switch Anti-islanding Protection AC Overcurrent Protection DC/AC Overvoltage Protection AC Short Circuit Protection DC Reverse Protection Surge Arrester Insulation Resistance Detection Leakage Current Protection AFCI 2.0/RSD	Class I				
	Yes				
	Yes				
	Yes				
	DC Type II, AC Type III				
	Yes				
	Yes				
	DC Type III, AC Type III				
	Yes				
	Yes				
	Optional				
General Max. Operation Altitude Ingress Protection Degree Operating Temperature Range Relative Humidity Cooling Method Mounting Dimensions (W*H*D) Weight PV Connection Way	4,000m (>2,000m derating)				
	IP66				
	-25°C~60°C (>45°C derating)				
	0~100%				
	Natural Cooling				
	Wall bracket				
	470mm*360mm*172mm				
	14.1kg	14.1kg	14.6kg	14.6kg	
	MC4/H4				
HMI & COM Display Communication Interface	Bluetooth & APP + LED, LCD (Optional)				
	RS485/CAN (BMS), DRM/RS485 (for Meter), RS485, Optional: Wi-Fi/LAN				
Certification Safety Grid Code Warranty	IEC 62109-1/2				
	EN 50549-1, VDE 4105, AS 4777.2, CEI 0-21, G98/G99/G100, RD 1699/661/647/413, UNE 217002 5 Years/10 Years (Optional)				

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 5/6KHB-D2/UL, SE 7.6/10/11.4KHB-T2/UL

Application: Residential Use



Excellent Performance

- Integrated 3 MPPTs for multiple array orientations
- Support high power module with 30A PV input current
- Max battery charge/discharge current of 210A



Safety & Reliability

- IP65: Indoor or outdoor installation
- Built-in breaker for safety and reliability
- Integrated arc fault circuit interrupter (AFCI 2.0) and rapid shutdown



High Flexibility

- Support 40-64V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support smart load/generator/AC Coupling



Intelligent Maintenance

- Intelligent management, local & remote monitoring
- 3 application modes, mixed with battery scheduling



SPLIT
PHASE
& LV
BATTERY

	SE 5KHB-130-D2/UL	SE 6KHB-130-D2/UL	SE 7K6HB-180-T2/UL	SE 10KHB-210-T2/UL	SE 11K4HB-210-T2/UL
Efficiency					
Max. Efficiency (PV to AC)	98.0%				
CEC. Efficiency	96.5%				
Input (PV)					
Max. PV Usable Power	7,500W	9,000W	12,000W	15,000W	15,000W
Max. PV Voltage	600V				
Start-up Voltage	90V				
MPPT Operating Voltage Range	70V-540V				
Max. Input Current Per MPPT	30A/22A	30A/22A	30A/22A/22A	30A/22A/22A	30A/22A/22A
Max Short Current Per MPPT	40A/30A	40A/30A	40A/30A/30A	40A/30A/30A	40A/30A/30A
String Per MPPT	2/2	2/2	2/2/2	2/2/2	2/2/2
Nos. of MPPT	2	2	3	3	3
Input/Output (BAT)					
Battery Type	Lithium-ion/Lead-acid				
Nominal Battery Voltage	48V				
Battery Voltage Range	40V-64V				
Max. Charge/Discharge Current	210A/130A	210A/130A	210A/180A	210A/210A	210A/210A
Max. Charge/Discharge Power	10,000W/5,000W	10,000W/6,000W	10,000W/7,600W	10,000W/10,000W	10,000W/10,000W
Output (Grid)					
Nominal AC Output Power	5,000W	6,000W	7,600W	10,000W	10,000W
Max. AC Output Apparent Power	5,500VA	6,600VA	7,600VA	11,000VA	11,400VA
Max. AC Output Power (PF=1)	5,500W	6,600W	7,600W	11,000W	11,400W
Nominal AC Output Current	20.9A	25A	31.7A	41.7A	41.7A
Max. AC Output Current	22.9A	27.5A	31.7A	45.8A	47.5A
Nominal Grid Voltage	120V/240V (Split phase)/120V/208V (2/3 phase)				
Nominal Grid Frequency	50Hz/60Hz				
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)				
Power Factor	> 0.99@Rated power (Adjustable 0.8 LG - 0.8 LD)				
THDI	<3%@Rated Power				
Output (Back up)					
Nominal Output Power	5,000W	6,000W	7,600W	10,000W	10,000W
Max. AC Output Power (PF=1)	5,500W	6,600W	7,600W	11,000W	11,400W
Nominal Output Current	20.9A	25A	31.7A	41.7	41.7A
Peak Output Apparent Power(1s)	10,000VA	12,000VA	15,200VA	20,000VA	20,000VA
Nominal Output Voltage	120V/240V (Split phase)/120V/208V (2/3 phase)				
Nominal Output Frequency	50Hz/60Hz				
Transfer Time	< 10ms (Typical)				
THDV	<3%@100% R Load				
Protection					
Protection Category	Class I				
DC Switch	Yes				
Anti-islanding Protection	Yes				
AC Overcurrent Protection	Yes				
DC/AC Overvoltage Protection	DC Type II, AC Type IV				
AC Short Circuit Protection	Yes				
DC Reverse connection	Yes				
Surge Arrester	DC Type II, AC Type II				
Insulation Resistance Detection	Yes				
Leakage Current Protection	Yes				
AFCI 2.0/RSD Monitoring	Yes				
General					
Max. Operation Altitude	4,000m (>2,000m derating)				
Ingress Protection Degree	NEMA 3R				
Operating Temperature Range	-25°C~60°C (>45°C derating)				
Relative Humidity	0~100%				
Cooling Method	Smart Cooling				
Mounting	Wall bracket				
Dimensions (W*H*D)	16.5*31.5*9.4 inch (420mm*800mm*240mm)				
Weight	44kg/97lb				
HMI & COM					
Display	Wireless & APP + LED , LCD (Optional)				
Communication Interface	CAN (for BMS), RS485 (for meter), RS485, CAN (for parallel), Optional: Wi-Fi/LAN				
Certification					
Safety	UL 1741/CSA C22.2/UL 1699B				
EMC	FCC Part 15 Class B				
Grid Code	UL 1741SA, UL 1741SB, UL 1741 PCS CRD, IEEE1547, HECO SRD 2.0, CSIP				
Warranty	5 Years/10 Years (Optional)				

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 11K4HB-T2/LV-ULP

Application: Residential Use



Excellent Performance

- 3 MPPTs: Integrated 3 MPPTs for multiple array orientations
- Max battery charge/discharge current of 210A
- 200A Bypass current for whole-home back up



Safety & Reliability

- IP65: Indoor or outdoor installation
- Built-in battery and Load breaker for safety and reliability
- Integrated arc fault interrupter (AFCI 2.0) and rapid shutdown



High Flexibility

- Support 40-64V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support smart load/generator/AC Coupling



Intelligent Maintenance

- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling



SPLIT
PHASE
& LV
BATTERY

SE 11K4HB-T2/LV-ULP	
Efficiency	96.5%
CEC. Efficiency	
Input (PV)	
Max. PV Usable Power	15,000W
Max. PV Voltage	600V
Start-up Voltage	90V
MPPT Operating Voltage Range	70V-540V
Max. Input Current Per MPPT	30A/22A/22A
Max Short Current Per MPPT	40A/30A/30A
No. of PV Strings Per MPPT	2/2/2
No. of MPPT	3
Input/Output (BAT)	
Battery Type	Lithium-ion/Lead-acid
Nominal Battery Voltage	51.2V
Battery Voltage Range	40V-64V
Max. Charge/Discharge Current	210A/210A
Max. Charge/Discharge Power	10,000W/10,000W
Output/Input (Grid)	
Nominal AC Output Power	11,400W
Max. AC Output Apparent power	11,400VA
Max. AC Output Current	47.5A
Max. Grid Passthrough Current	200A
Nominal Grid Voltage	120V/240V (Split phase), 120V/208V (2/3 phase)
Nominal Grid Frequency	50Hz/60Hz
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)
Power Factor	> 0.99@Rated power (Adjustable 0.8 LG - 0.8 LD)
THDI	<3%@Rated Power
Output (Load)	
Nominal Output Power	11,400W
Max. AC Output Apparent Power	11,400VA
Nominal Output Current	47.5A
Peak Output Apparent Power	150%,10s
Nominal Output Voltage	120V/240V (Split phase), 120V/208V (2/3 phase)
Nominal Output Frequency	50Hz/60Hz
Transfer Time	< 10ms (Typical)
THDV	<3%@100% R Load
Output/Input (GEN Port)	Max. 100A/24,000W
Protection	
Protection Category	Class I
DC Switch	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC/AC Overvoltage Protection	Yes
AC Short Circuit Protection	Yes
PV Reverse Connection	Yes
Surge Arrester	Yes
Insulation Resistance Detection	DC Type II, AC Type II
Leakage Current Protection	Yes
Battery Breaker	Integrated (300A)
Load Breaker	Integrated (2*200A)
AFCI 2.0/RSD Monitoring	Yes
General	
Max. Operation Altitude	4,000m (>2,000m derating)
Ingress Protection Degree	NEMA 3R
Operating Temperature Range	-25°C~60°C (>45°C derating)
Relative Humidity	0-100%
Cooling Method	Smart Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	17.6*35.5*10.6 inch (448mm*901mm*270mm)
Weight	47kg/103.6lb
HMI & COM	
Display	LED or 4.3 inch touch LCD
Communication Interface	CAN (for BMS), RS485 (for meter), RS485, CAN (for parallel), Optional: Wi-Fi/LAN
Certification	
Safety	UL 1741/CSA C22.2/UL 1699B
EMC	FCC Part 15 Class B
Grid Code	UL 1741SA, UL 1741SB, UL 1741 PCS CRD, IEEE1547, HECO SRD 2.0, CSIP
Warranty	5 Years/10 Years (optional)

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 6/8KHB-D3/LV, SE 10/12/15/20KHB-T3/LV

Application: Residential Use & Small C&I Use



Excellent Performance

- 3 MPPTs with Max. PV Input power of 30kW
- Support high power module with 20A PV input current
- Up to 380A max. charging/discharging current
- Max. Grid Passthrough Current of 45A



Safety & Reliability

- IP65: Indoor or outdoor installation
- MC4 PV connectors, convenient for installation
- Multiple built-in protections, with optional AFCI 2.0/RSD/Battery breaker
- Seamless transition to backup mode, for protection against power outages



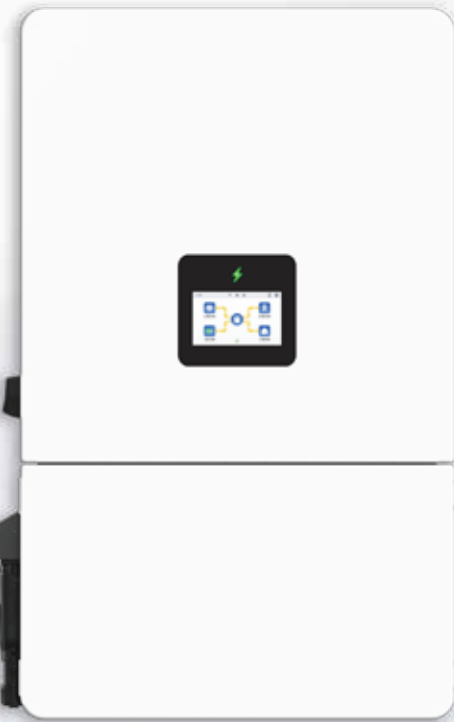
High Flexibility

- Support 40-60V Lithium or Lead-acid battery
- 3-Phase unbalanced output: Increase the self-use rate of solar energy
- Support smart load/generator/AC Coupling
- Max. 9 units parallel for on-gird and off-gird operation



Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Intelligent Management, local & remote monitoring



THREE
PHASE
& LV
BATTERY

	SE 6KHB-D3/LV	SE 8KHB-D3/LV	SE 10KHB-T3/LV	SE 12KHB-T3/LV	SE 15KHB-T3/LV	SE 20KHB-T3/LV
Efficiency						
Max. Efficiency	97.60%					
European Efficiency	97.00%					
Input (PV)						
Max. PV Access Power	25,000W	25,000W	40,000W	40,000W	40,000W	40,000W
Max. PV Usable Power	20,000W	20,000W	30,000W	30,000W	30,000W	30,000W
Max. PV Input Voltage	1,000V					
Start-up Voltage	120V					
MPPT Operating Voltage Range	160V-980V					
Max. Input Current per MPPT	20A/20A	20A/20A	20A/20A/20A	20A/20A/20A	20A/20A/20A	20A/20A/20A
Max. Short Circuit Current per MPPT	30A/30A	30A/30A	30A/30A/30A	30A/30A/30A	30A/30A/30A	30A/30A/30A
No. of MPP Trackers	2	2	3	3	3	3
No. of Strings per MPP Tracker	1/1	1/1	1/1/1	1/1/1	1/1/1	1/1/1
Input/Output (BAT)						
Battery Type	Lithium-ion/Lead-acid					
No. of Battery Input	2*					
Nominal Battery Voltage	48V					
Battery Voltage Range	40V-60V					
Max. Charge/Discharge Current	380A/150A	380A/200A	380A/250A	380A/300A	380A/350A	380A/380A
Max. Charge/Discharge Power	20,000W/7,200W	20,000W/9,600W	20,000W/12,000W	20,000W/14,500W	20,000W/18,000W	20,000W/20,000W
Input/Output (Grid)						
Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Max. Single Phase Power	4,300W	4,300W	8,500W	8,500W	8,500W	8,500W
Max. Grid Passthrough Current (grid to load)	45A					
Nominal Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Frequency	50Hz/60Hz					
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					
THDI	<3% @rated power					
Output (Back up)						
Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Peak Output Apparent Power	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	200% @ 10s	150% @ 10s
Nominal Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Frequency	50Hz/60Hz					
Transfer Time	< 10ms (Typical)					
THDV	<3% @100% R Load					
Input (Generator)						
Max. Input Power	30,000W					
Protection						
Protection Category	Class I					
PV Switch	Yes					
Anti-islanding Protection	Yes					
Overcurrent Protection	Yes					
PV Reverse Polarity Protection	Yes					
Overvoltage Protection	Yes					
Surge Protection	DC Type II, AC Type II					
Insulation Resistance Detection	Yes					
Residual Current Protection	Yes					
Built-in Battery Breaker	400A, Optional					
AFCI 2.0/RSD	Optional					
General						
Max. Operation Altitude	4,000m (>2,000m derating)					
Ingress Protection Degree	IP65					
Operating Temperature Range	-25°C~60°C (>45°C derating)					
Relative Humidity	0~100%					
Cooling Method	Smart Cooling					
Mounting	Wall bracket					
Dimensions (W*H*D)	460mm*742mm*266mm					
Weight	46.5kg					
HMI & COM						
Display	LED+LCD					
Communication Interfaces	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN,Optional)					
Certification						
Safety	IEC/EN 62109-1/-2					
EMC	IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920					
Grid	IEC 61727/62116, IEC 60068, IEC 61683, EN50549-1/10, CEI 0-21					
Warranty	5 Years/10 Years (optional)					

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.

· Specifications are subject to change without advanced notice.

*: if only one set of terminals is used, the max battery charge/discharge current will be limited to 250A

Hybrid Inverter

SE 5/6/8/10KHB-D3P

Application: Residential Use



Excellent Performance

- Maximum efficiency of 97.8% and battery efficiency of 97.0%
- Maximum 15kW PV input power, supporting continuous overload capacity of 110% and unbalanced output of 150%
- Maximum battery charge/discharge current of 50A



Safety & Reliability

- Key components from international renowned brands
- IP65 protection rating, ensuring adaptability to complex outdoor environment
- Multiple built-in protections, with optional AFCI 2.0



High Flexibility

- Large MPPT current, compatible with high-power solar panels
- Advanced parallel function



Intelligent Maintenance

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
- Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings"



THREE
PHASE
& HV
BATTERY

	SE 5KHB-D3P	SE 6KHB-D3P	SE 8KHB-D3P	SE 10KHB-D3P
Efficiency				
Max. Efficiency (PV to AC)	97.3%	97.3%	97.8%	97.8%
European Efficiency (PV to AC)	96.7%	96.7%	97.0%	97.0%
Input (PV)				
Max. PV Usable Power	15,000W			
Max. PV Input Voltage	1,000V			
Start-up Voltage	120V			
MPPT Operating Voltage Range	160V-950V			
Max. Input Current per MPPT	20A/30A			
Max. Short Circuit Current per MPPT	30A/40A			
No. of MPP Trackers	2			
No. of Strings per MPP Tracker	1/2			
Input/Output (BAT)				
Battery Type	Lithium-ion/Lead-acid			
Nominal Battery Voltage	250V-600V			
Battery Voltage Range	120V-600V			
Max. Charge/Discharge Current	50A/50A			
Max. Charge/Discharge Power	15,000W/5,800W	15,000W/7,000W	15,000W/9,100W	15,000W/11,300W
Output (Grid)				
Nominal AC Output Power	5,000W	6,000W	8,000W	10,000W
Max. AC Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA
Max. AC Output Power (PF=1)	5,500W	6,600W	8,800W	11,000W
Max. AC Output Current	3*8.3A	3*10A	3*13.3A	3*16.7A
Max. Single Phase Power	2,500W	3,000W	4,000W	5,000W
Max. Input Power	15,800W			
Max. Input Current	3*25A			
Nominal Voltage	380V/400V/415V, 3W+N+PE			
Grid Voltage Range	260V-520V (Adjustable)			
Nominal Grid Frequency	50Hz/60Hz			
AC Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Power Factor	> 0.99@rated power (Adjustable 0.8 LD - 0.8 LG)			
THDI	<5%@Rated Power			
Output (Back up)				
Nominal Output Power	5,000W	6,000W	8,000W	10,000W
Nominal Output Current	3*7.6A	3*9.1A	3*12.2A	3*15.2A
Max. Single Phase Power	2,500W	3,000W	4,000W	5,000W
Peak Output Apparent Power (5min)	6,000VA	7,200VA	9,600VA	12,000VA
Peak Output Apparent Power (10s)	7,500VA	9,000VA	12,000VA	15,000VA
Nominal Output Voltage	380V/400V/415V, 3W+N+PE			
Nominal Output Frequency	50Hz/60Hz			
Transfer Time	< 10ms (Typical)			
THDV	<3%@100% R Load			
Protection				
Protection Category	Class I			
PV Switch	Yes			
Anti-islanding Protection	Yes			
AC Overcurrent Protection	Yes			
DC/AC Overvoltage Protection	DC Type II, AC Type III			
AC Short Circuit Protection	Yes			
DC Reverse Protection	Yes			
Surge Arrester	DC Type II, AC Type II			
Insulation Resistance Detection	Yes			
Leakage Current Protection	Yes			
GFCI	Yes			
AFCI 2.0/RSD	Optional			
General				
Max. Operation Altitude	4,000m (>2,000m derating)			
Ingress Protection Degree	IP65			
Operating Temperature Range	-25°C~60°C (>45°C derating)			
Relative Humidity	0~100%			
Cooling Method	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	560mm*580mm*218.3 mm			
Weight	32kg			
PV Connection Way	MC4/H4			
HMI & COM				
Display	APP+LED, LCD (Optional)			
Communication Interface	RS485/CAN (for BMS), DRM, RS485 (for Meter), Wi-Fi/LAN (Optional, for Portal)			
Certification				
Safety	IEC/EN 62109-1&2			
EMC	IEC/EN 61000			
Grid Code	VDE 4105, EN 50549-1, CEI 0-21, PPDS, RD 1699/661/647/413, UNE 217002, AS 4777.2, C10/11, G98/G100, IEC 61727/62116			
Warranty	5 Years/10 Years (Optional)			

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
· Specifications are subject to change without advanced notice.

Hybrid Inverter

SE 12/15/20KHB-D3, SE 25/30KHB-T3

Application: Residential & Small-Medium C&I Use



Excellent Performance

- Maximum efficiency of 98.4% and battery efficiency of 98.0%
- Supporting continuous overload capacity of 110% and unbalanced output
- Maximum battery charge/discharge current of 2*75A



Safety & Reliability

- Key components from international renowned brands
- IP66 protection rating, ensuring adaptability to complex outdoor environment
- Multiple built-in protections, with optional AFCI 2.0



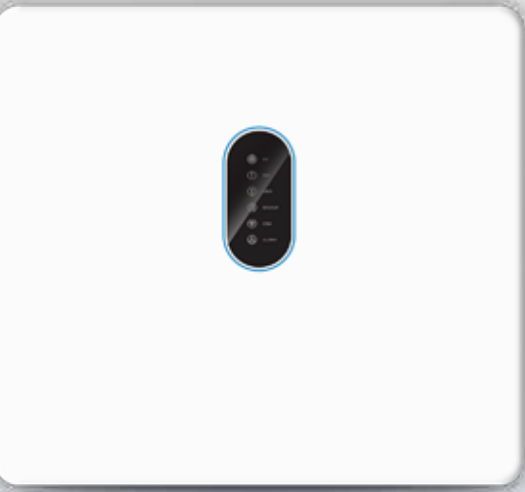
High Flexibility

- Large MPPT current, compatible with high-power solar panels
- Advanced parallel function



Intelligent Maintenance

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
- Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings



THREE
PHASE
& HV
BATTERY

	SE 12KHB-D3	SE 15KHB-D3	SE 20KHB-D3	SE 25KHB-T3	SE 30KHB-T3
Efficiency					
Max. Efficiency (PV to AC)	98.2%	98.2%	98.2%	98.4%	98.4%
European Efficiency (PV to AC)			97.9%		
Input (PV)					
Max. PV Usable Power	30,000W	30,000W	30,000W	45,000W	45,000W
Max. PV Input Voltage			1,000V		
Start-up Voltage			150V		
MPPT Operating Voltage Range			160V-950V		
Max. Input Current per MPPT	32A/32A	32A/32A	32A/32A	32A/32A/32A	32A/32A/32A
Max. Short Circuit Current per MPPT	40A/40A	40A/40A	40A/40A	40A/40A/40A	40A/40A/40A
No. of MPP Trackers	2	2	2	3	3
No. of Strings per MPP Tracker	2/2	2/2	2/2	2/2/2	2/2/2
Input/Output (BAT)					
Battery Type			Lithium-ion/Lead-acid		
Battery Voltage Range at Rated Power	230V-800V	285V-800V	380V-800V	190V-800V	230V-800V
Battery Voltage Range			120V-800V		
Max. Charge/Discharge Current	60A/60A	60A/60A	60A/60A	2*75A/2*75A	2*75A/2*75A
Max. Charge/Discharge Power	30,000W/14,400W	30,000W/18,000W	30,000W/24,000W	45,000W ^① /30,000W	45,000W ^① /36,000W
Output (Grid)					
Nominal AC Output Power	12,000W	15,000W	20,000W	25,000W	30,000W
Max. AC Output Apparent Power	13,200VA	16,500VA	22,000VA	27,500VA	33,000VA
Max. AC Output Power (PF=1)	13,200W	16,500W	22,000W	27,500W	33,000W
Max. AC Output Current	3*20A	3*25A	3*33.3A	3*41.7A	3*50A
Max. Single Phase Power	10,000VA	10,000VA	10,000VA	11,000VA	11,000VA
Max. Input Power	36,000VA	40,000VA	40,000VA	45,000VA	45,000VA
Max. Input Current	3*54.5A	3*60.6A	3*60.6A	3*68.2A	3*68.2A
Nominal voltage			380V/400V/415V, 3W+N+PE		
Grid Voltage Range			277V-520V (Adjustable)		
Nominal Grid Frequency			50Hz/60Hz		
AC Frequency Range			45Hz-55Hz/55Hz-65Hz (Adjustable)		
Power Factor			> 0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)		
THDI			<3%@Rated Power		
Output (Back up)					
Nominal Output Power	12,000W	15,000W	20,000W	25,000W	30,000W
Nominal Output Current	3*18.2A	3*22.7A	3*30.3A	3*37.9A	3*45.5A
Peak Output Apparent Power (5min)	14,400VA	18,000VA	24,000VA	30,000VA	36,000VA
Peak Output Apparent Power(10s)	18,000VA	22,500VA	30,000VA	37,500VA	45,000VA
Nominal Output Voltage			380V/400V/415V, 3W+N+PE		
Nominal Output Frequency			50Hz/60Hz		
Transfer Time			< 10ms (Typical)		
THDV			<3%@100% R Load		
Protection					
Protection Category			Class I		
PV Switch			Yes		
Anti-islanding Protection			Yes		
AC Overcurrent Protection			Yes		
DC/AC Overvoltage Protection			DC Type II, AC Type III		
AC Short Circuit Protection			Yes		
DC Reverse Protection			Yes		
Surge Arrester			DC Type II, AC Type II		
Insulation Resistance Detection			Yes		
Leakage Current Protection			Yes		
AFCI 2.0/RSD			Optional		
General					
Max. Operation Altitude			4,000m (>2,000m derating)		
Ingress Protection Degree			IP66		
Operating Temperature Range			-25°C~60°C (>45°C derating)		
Relative Humidity			0~100%		
Cooling Method	Natural Cooling	Natural Cooling	Natural Cooling	Smart Cooling	Smart Cooling
Mounting			Wall bracket		
Dimensions (W*H*D)			660mm*596mm*235mm		
Weight	45kg	45kg	45kg	55kg	55kg
PV Connection Way			MC4/H4		
HMI & COM					
Display			Bluetooth & APP+LED, LCD (Optional)		
Communication Interface			RS485/CAN (for BMS), RS485, DRM/RS485 (for Meter), Optional: Wi-Fi/LAN, 3*DO, 2*DI		
Certification					
Safety			IEC 62109-1&2		
EMC			IEC/EN 61000		
Grid Code			VDE 4105, EN 50549-1, CEI 0-21, NRS 097-2-1, RD 1699/661/647/413, UNE 217002, AS 4777.2, C10/11, IEC 61727/62116		
Warranty			5 Years/10 Years (Optional)		

Remarks: ① For single battery port connected, the maximum charge power is 25,500W. When two ports are used, the power can reach 45,000W.

• The range of output voltage and frequency may vary depending on different grid codes.

• Specifications are subject to change without advanced notice.

Accessory

DATA LOGGER V1000+



Superior Performance

- Standard RJ45 patch cable
- Power export control support



High Reliability

- 12 Months of data storage
- Automatic network clock synchronization



Intelligent Maintenance

- Built-in web server for LAN monitoring
- RS485 Interface for inverters connection



V1000+

Connection	Inverter: RS485 Router: RJ45
Access Number	40pcs
Transmission Maximum Distance	1200m
Display	LED
Input	
Input Voltage	Input: AC 90V-250V 50/60Hz Output: DC 5V
Static Current Consumption	1A
General	
Operating Temperature	-25°C~55°C
Humidity	10%~95% relative humidity, no condensation
IP Rating	IP20
Dimension (L*W*H)	128mm*102mm*29mm
Safety	FCC, CE, ROHS

SE WIFI U3 & SE LAN U3



Superior Performance

- Hot-pluggable
- Upgrade progress is saved at any time
- Automatic time synchronization



High Reliability

- Plug-and-play with screw-free installation
- IP65 Protection rating
- Cybersecurity: Compliance with various cybersecurity standards



Intelligent Maintenance

- Remote upgrades and monitoring
- Simultaneous monitoring of up to 10 inverters with 1 device
- Real-time data refresh (1-10 min)



SE WIFI U3

SE LAN U3

Connection	RS485	
Standards	802.11 b/n/g	
Transmission Maximum Distance	10-15m	100m CAT5
Setting	APP/WEB	
Input		
InputInput Voltage	DC: 5±0.8V	
Static Power Consumption	≤2.5W	
General		
Operating Temperature	-40°C~85°C	
Humidity	10%~90% relative humidity, non-condensation	
IP Rating	IP65	
Dimension (L*W*H)	44mm*32mm*94mm	44mm*32mm*150mm
Safety	CE RED, PSTI, IEEE 2030.5, FCC, Anatel, EN 303645, EN 18031	

4G-U3 & 4G-DB9



High Communication Compatibility

- Supports data recovery resume and offline buffering
- Upgrade progress resumes automatically upon reconnection after disconnection
- Supports customization for built-in or external antennas



High Reliability

- Plug-and-play with screw-free installation
- IP66 Protection rating
- Cybersecurity: Compliance with various cybersecurity standards



Intelligent Maintenance

- Remote upgrades and monitoring
- Real-time data refresh (1-10 min)



4G-U3

4G-DB9

Connection	RS485	TTL
Frequency Bands		
LTE-FDD	B1/B3/B5/B7/B8/B20/B28	
LTE-TDD	B34/B38/B39/B40/B41	
GNSS (Optional)	BDS	
Setting	APP/WEB	
Input		
InputInput Voltage	DC: 5±0.8V	
Static Power Consumption	<2.5W	
General		
Operating Temperature	-35°C to +75°C	
Humidity	10 -90% RH relative humidity, non-condensation	
IP Rating	IP66	
Dimension (L*W*H)	44mm*32mm*94mm	71mm*41mm*92mm
Wegiht	56.5g	81.1g
Safety	IEEE2030.5, EN18031, EN303645	

Smart Solar **Cloud**



Through self-developed web-based management platforms and mobile applications, we have built end-to-end digital tools spanning product design and post-sales services, empowering global clients to efficiently execute customized inverter development and project management.

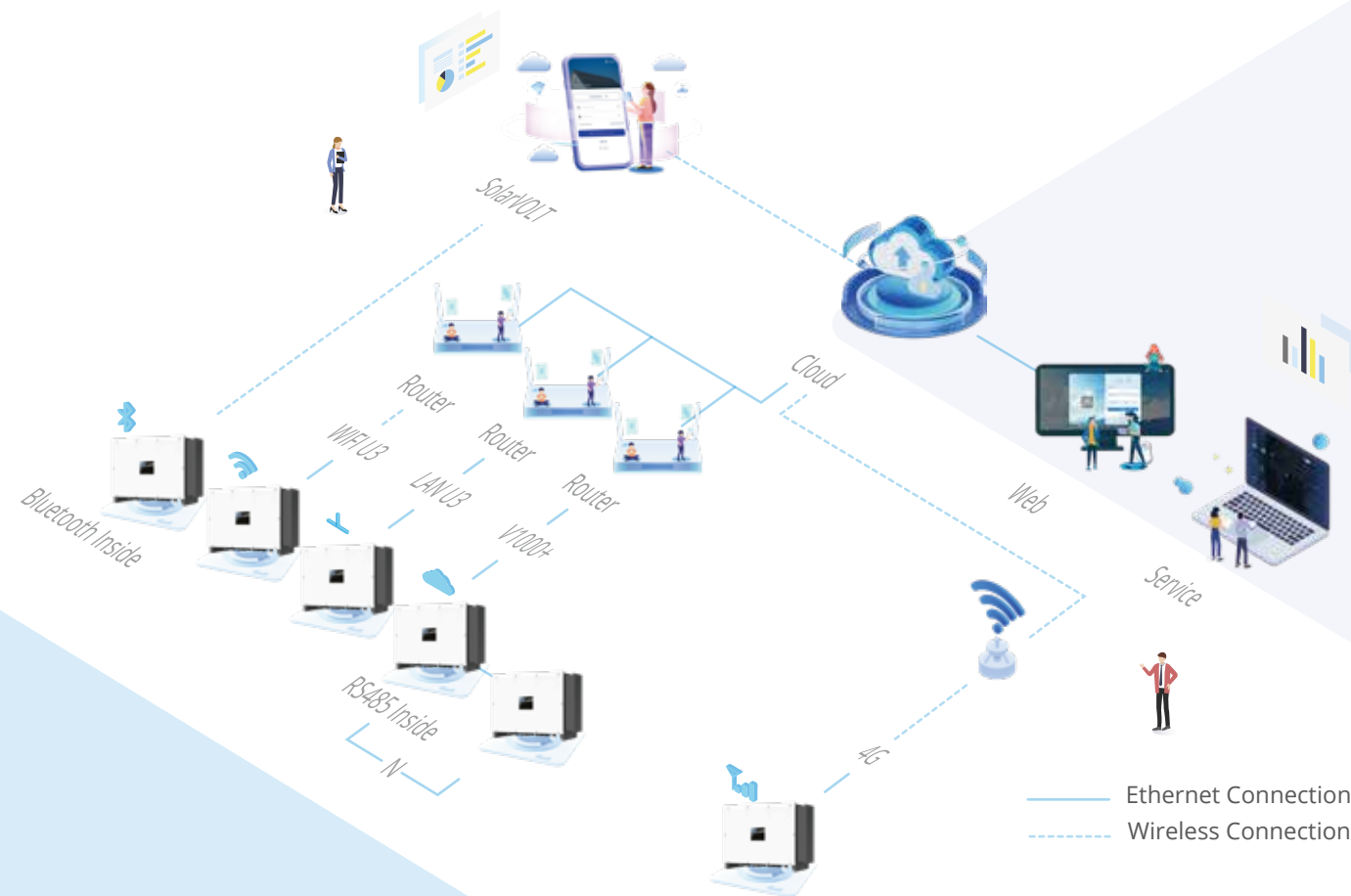


Real-time Security
Early Warning 1

Real-time Data
Monitoring for
Equipment 2

Historical Data
Traceability Analysis 3

Global Multilingual
Intelligent Adaptive
Interface 4



Pre-Sales **Support**



After-Sales **Service**



Sufficient Warranty

- 66-month standard warranty
- \$10M product liability
- Insurance for shipped inverters



Replacement Service

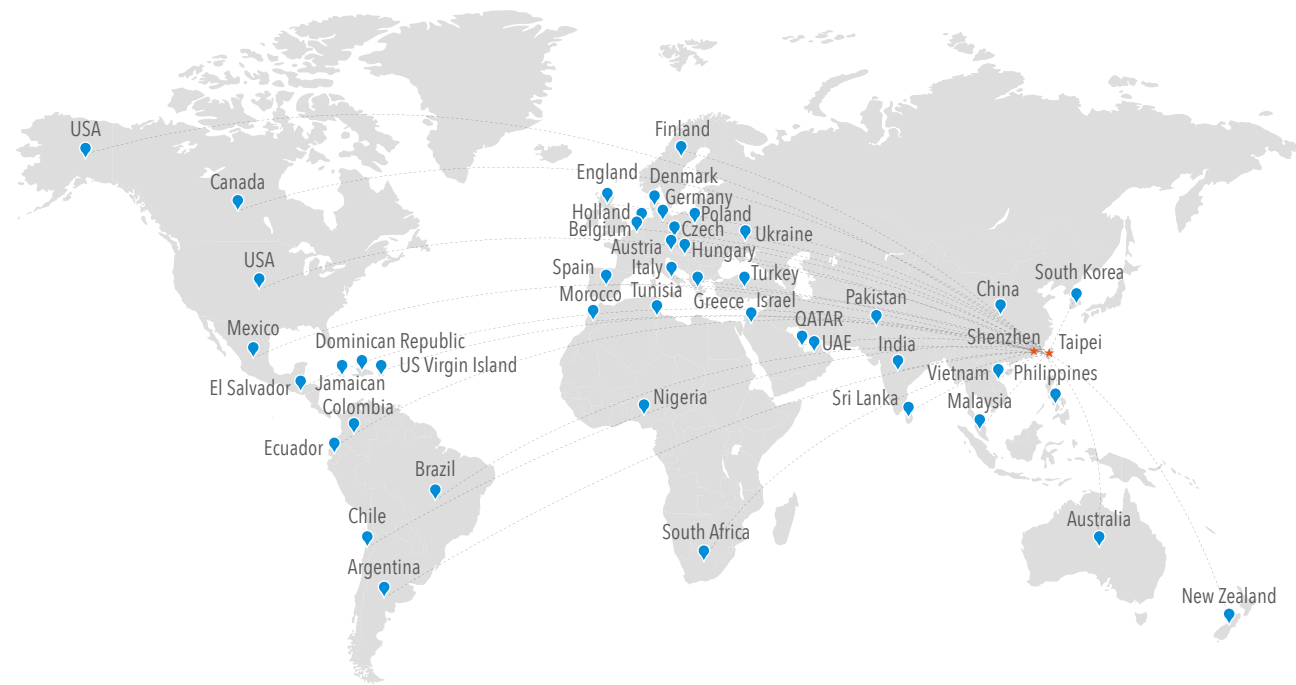
- Offer expert diagnostics and responsive technical support through an experienced team
- Professional 8D reports provided for quality complain



Quick Response

- Return Material Authorization (RMA) responses within 3 days
- Spare PCBA and units provided for the best benefit of customer

Global Network



Marketing Promotion



Vision & Mission

“

Become the technology and market leader in the new energy industry through continuous innovation, distinctive and highly competitive products and services.

”

CUSTOMER FOCUS

COMMITMENT TO QUALITY

TEAM WORK

INTEGRITY

INNOVATION

Application References

