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PrimeVOLT
Brazil

**PV INVERTER AND
ENERGY STORAGE SOLUTION
SERIES 2022**



SINGLE PHASE & SINGLE MPPT

SE 2/3/3.6KTL-S1/G2

Application: Family Use



SUPERIOR EFFICIENCY

- Maximum efficiency 97.8%
- String current 13A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export power control

Model	SE 2KTL-S1/G2	SE 3KTL-S1/G2	SE 3K6TL-S1/G2
Efficiency			
Max. Efficiency	97.5%	97.8%	97.8%
European 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	13A		
Max.Short Circuit Current	15A		
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 Active Power (PF=1)	2,200W	3,300W	3,600W
Max. AC Output Current	10A	15A	16A
Rated AC Voltage	220V/230V, L+N+PE		
AC Voltage Range ^①	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ^②	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3% (Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	>0.99 Rated power (Adjustable 0.8 Leading-0.8 Lagging)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type III (Optional) / AC Type III		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Natural cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise (typical)	30dB		
Dimensions (W*H*D)	320mm*344mm*137mm		
Weight	6.5Kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication	WiFi (Optional) / GPRS (Optional) / RS485 (Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Grid Code	IEC61727 / 62116, ABNT 16149 / 16150, IEEE 1547, AS 4777		
Warranty	5 Years		

Remarks : • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

SINGLE PHASE & DUAL MPPT

SE 4/5/6KTL-D1/G2

Application: Family Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.2%
- String current 13A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export power control

Model	SE 4KTL-D1/G2	SE 5KTL-D1/G2	SE 6KTL-D1/G2
Efficiency			
Max. Efficiency	98.0%	98.2%	98.2%
European 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	26A (2*13A)		
Max.Short Circuit Current	30A (2*15A)		
Start Input Voltage	90V		
MPPT Operating Voltage Range	70V-540V		
Max. Number of PV Strings	2(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 Active Power (PF=1)	4,400W	5,500W	6,000W
Max. AC Output Current	20A	25A	27.3A
Rated AC Voltage	220V/230V, L+N+PE		
AC Voltage Range ^①	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ^②	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3% (Rated Power)		
DC Current Injection	<0.5In		
Power Factor	>0.99 Rated power (Adjustable 0.8 Leading-0.8 Lagging)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type III (Optional) / AC Type III		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Natural cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise (typical)	30dB		
Dimensions (W*H*D)	347mm*350mm*137mm		
Weight	8.5Kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication	WiFi (Optional) / GPRS (Optional) / RS485 (Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Grid Code	IEC61727 / 62116, ABNT 16149 / 16150, IEEE 1547, AS 4777		
Warranty	5 Years		

Remarks : • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

SINGLE PHASE & DUAL MPPT

SE 7/8/10KTL-D1

Application: Family Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.2%
- String current 13A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof, C5 anti-corrosion
- Compatible with wide power grid voltage and high harmonic power grid environment
- DC /AC SPD optional, AFCI detection optional



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export power control

Model	SE 7KTL-D1	SE 8KTL-D1	SE 10KTL-D1
Efficiency			
Max. Efficiency	98.2%	98.2%	98.2%
European Efficiency	97.4%	97.5%	97.6%
Input(PV)			
Max. Input Voltage	550V		
Max. PV configuration (STC)	150%		
Rated Input Voltage	360V		
Max. Input Current	26A (2*13A)	39A (2*13A+13A)	
Max.Short Circuit Current	30A (2*15A)	45A(2*15A+15A)	
Start Input Voltage	90V		
MPPT Operating Voltage Range	70V-540V		
Max. Number of PV Strings	2(1/1)	3(2/1)	
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 Active Power (PF=1)	7,700W	8,800W	10,000W
Max. AC Output Current	35A	40A	45.5A
Rated AC Voltage	220V/230V, L+N+PE		
AC Voltage Range ^①	160V-300V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ^②	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3% (Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	>0.99 Rated power (Adjustable 0.8 Leading-0.8 Lagging)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type III (Optional) / AC Type III		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Natural cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise (typical)	30dB		
Dimensions (W*H*D)	400mm*450mm*170mm		
Weight	16Kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication	WiFi (Optional) / GPRS (Optional) / RS485 (Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Grid Code	IEC61727 / 62116, ABNT 16149 / 16150, IEEE 1547, AS 4777		
Warranty	5 Years		

Remarks : • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & DUAL MPPT

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



SUPERIOR EFFICIENCY

- Maximum efficiency 98.3%
- Max String Current 20A, compatible with 600W+ modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion
- DC /AC SPD, AFCI detection optional
- Compatible with wide power grid voltage and high harmonic power grid environment



INTELLIGENT MAINTENANCE

- App quick commissioning
- Remote configuration and upgrade
- Supports export control

Model	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%
European Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
Input (PV)						
Max. Input Voltage	1100V					
Max. PV configuration	150%					
Rated Input Voltage	620V					
Max. Input Current	2*15A			2*15A+15A		
Max.Short Circuit Current	2*20A			2*20A+20A		
Start Input Voltage	180V					
MPPT Operating Voltage Range	160V-1000V					
Max. Number of PV Strings	2 (1/1)			3 (2/1)		
No. of MPPTs	2					
Output (Grid)						
Rated AC Active Power	5000W	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	5500VA	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA
Max. AC Active Power (PF=1)	5500W	6,600W	8,800W	11,000W	13,200W	16,500W
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*16.8A	3*20.2A	3*25.3A
Rated AC Voltage	380V / 400V / 415V, 3W+N+PE					
AC Voltage Range ^①	260V-510V (adjustable)					
Rated Grid Frequency	50Hz / 60Hz					
Grid Frequency Range ^②	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 Leading - 0.8Lagging)					
Protection						
DC switch	Support					
Anti-islanding protection	Support					
AC overcurrent protection	Support					
AC short circuit protection	Support					
DC reverse connection	Support					
Surge Arrester	AC Type III (Type II optional) / DC Type III (Type II optional)					
Insulation detection	Support					
String current detection	Support					
Leakage current protection	Support					
General						
Topology	Transformerless					
IP Rating	IP66					
Night Self Consumption	<1W					
Cooling	Natural cooling					
Operating Temperature Range	-25°C-60°C					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Noise	<30dB					
Dimensions (W*H*D)	398mm*460mm*190mm					
Weight	23Kg					
HMI & COM						
Display	Wireless & APP +LED, LCD (Optional)					
Communication	RS485, WiFi / GPRS / 4G (Optional)					
Certification						
Safety	IEC62109-1, IEC62109-2					
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116					
Warranty	5 Years					

Remarks : • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
 • Specifications are subject to change without advance notice.

THREE PHASE & DUAL MPPT

SE 10/12/15KTL-D3/G2P, SE 17/20/22/25KTL-D3/G2



SUPERIOR EFFICIENCY

- Maximum efficiency 98.4%
- Max String Current 20A, compatible with 600W+ modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti-corrosion
- DC /AC SPD, AFCI detection optional
- Compatible with wide power grid voltage and high harmonic power grid environment



INTELLIGENT MAINTENANCE

- App quick commissioning
- Remote configuration and upgrade
- Supports export control

Model	SE 10KTL-D3/G2P	SE 12KTL-D3/G2P	SE 15KTL-D3/G2P	SE 17KTL-D3/G2	SE 20KTL-D3/G2	SE 22KTL-D3/G2	SE 25KTL-D3/G2
Efficiency							
Max. Efficiency	98.3%	98.3%	98.4%	98.4%	98.4%	98.4%	98.4%
European Efficiency	97.8%	97.8%	98.0%	98.0%	98.0%	98.0%	98.0%
Input (PV)							
Max. Input Voltage	1100V						
Max. PV configuration	150%						
Rated Input Voltage	620V						
Max. Input Current	30A+15A					2*30A	
Max.Short Circuit Current	40A+20A					2*40A	
Start Input Voltage	180V						
MPPT Operating Voltage Range	160V-1000V						
Max. Number of PV Strings	3 (2/1)					4 (2/2)	
No. of MPPTs	2						
Output (Grid)							
Rated AC Active Power	10,000W	12,000W	15,000W	17,000W	20,000W	22,000W	25,000W
Max. AC Apparent Power	11,000VA	13,200VA	16,500VA	18,700VA	22,000VA	24,200VA	25,000VA
Max. AC Active Power (PF=1)	11,000W	13,200W	16,500W	18,700W	22,000W	24,200W	25,000W
Max. AC Output Current	3*16.8A	3*20.2A	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 Range ^①	260V-510V (adjustable)						
Rated Grid Frequency	50Hz / 60Hz						
Grid Frequency Range ^②	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 Leading - 0.8Lagging)						
Protection							
DC switch	Support						
Anti-islanding protection	Support						
AC overcurrent protection	Support						
AC short circuit protection	Support						
DC reverse connection	Support						
Surge Arrester	AC Type III (Type II optional) / DC Type III (Type II optional)						
Insulation detection	Support						
String current detection	Optional						
Leakage current protection	Support						
General							
Topology	Transformerless						
IP Rating	IP66						
Night Self Consumption	<1W						
Cooling	Natural cooling			Fan cooling			
Operating Temperature Range	-25°C-60°C						
Relative Humidity Range	0-100%						
Max. Operating Altitude	4000m						
Noise	<45dB						
Dimensions (W*H*D)	398mm*460mm*190mm						
Weight	23Kg						
HMI & COM							
Display	Wireless & APP +LED, LCD (Optional)						
Communication	RS485, WiFi / GPRS / 4G (Optional)						
Certification							
Safety	IEC62109-1, IEC62109-2						
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116						
Warranty	5 Years						

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

THREE PHASE & DUAL MPPT

SE 10/12KTL-DL3

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

- Max efficiency 97.3%
- Ultra-wide voltage range (180V-750V)



HIGH RELIABILITY

- Integrated type II DC/AC SPD
- Natural cooling design



INTELLIGENT MAINTENANCE

- Intelligent monitoring via APP & Web
- Multiple remote monitoring for convenient operation and maintenance
- Supports 3Phase 208/220/240V grid system

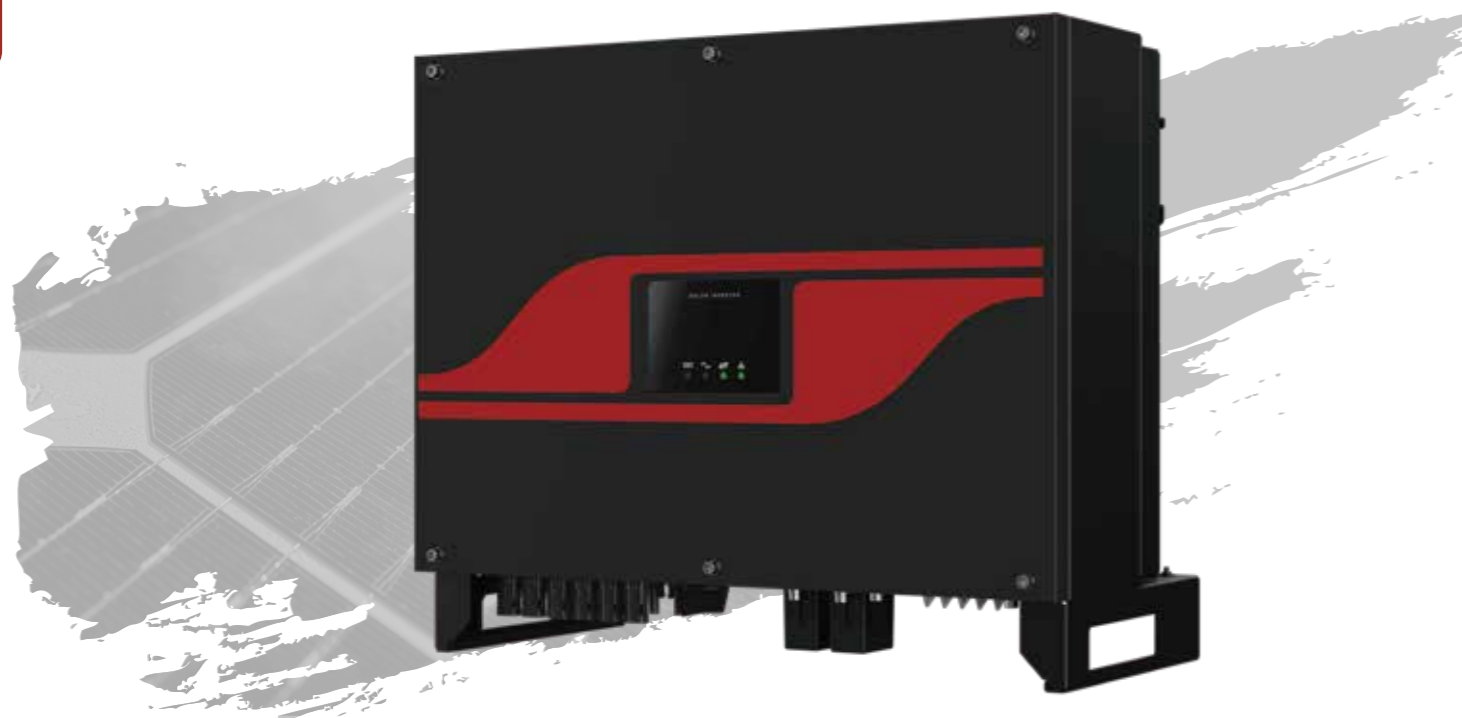
Model	SE 10KTL-DL3	SE 12KTL-DL3
Efficiency		
Max. Efficiency	97.3%	97.3%
Input (PV)		
Max. Input Voltage	800V	
Rated Input Voltage	360V	
Max. Input Current	54A (2*27A)	
Max.Short Circuit Current	60A (2*30A)	
Start Input Voltage/ Min. Operating Voltage	250V/180V	
MPPT Operating Voltage Range	180V-750V	
MPPT Operating Voltage Range (Full-Load)	300V-680V	
Max. Number of PV Strings	4 (2/2)	
No. of MPPTs	2	
Output (Grid)		
Rated AC Active Power	10,500W	12,000W
Max. AC Apparent Power	11,500VA	13,500VA
Max. AC Active Power (PF=1)	11,500W	13,500W
Max. AC Output Current	3*28.3A	3*33.5A
Rated AC Voltage	220V, 3W+N+PE	
AC Voltage Range*	180V-300V (Adjustable)	
Rated Grid Frequency	60Hz	
Grid Frequency Range**	55Hz-65Hz (Adjustable)	
THDI	<3% (Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	>0.99 Rated power (Adjustable 0.8 LG - 0.8 LD)	
Protection		
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II / AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
General		
Topology	Transformerless	
IP Rating	IP65	
Night Self Consumption	<1W	
Cooling	Natural cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<35dB	
Dimensions (W*H*D)	555mm*446mm*270mm	
Weight	37Kg	
HMI & COM		
Display	Wireless & APP+LED, LCD (Optional)	
Communication	RS485, WiFi (Optional), GPRS (Optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
Grid Code	IEC61727, IEC62116, IEEE 1547	
Warranty	5 Years / 10Years (Optional)	

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & DUAL MPPT

SE 17/18KTL-DL3

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

- Max efficiency 97.5%
- Ultra-wide voltage range (180V-750V)



HIGH RELIABILITY

- Integrated type II DC/AC SPD
- Natural cooling design



INTELLIGENT MAINTENANCE

- Intelligent monitoring via APP & Web
- Multiple remote monitoring for convenient operation and maintenance
- Supports 3Phase 208/220/240V grid system

Model	SE 16KTL-DL3	SE 18KTL-DL3
Efficiency		
Max. Efficiency	97.5%	97.5%
Input (PV)		
Max. Input Voltage	800V	
Rated Input Voltage	360V	
Max. Input Current	81A (2*40.5A)	
Max.Short Circuit Current	90A (2*45A)	
Start Input Voltage/ Min. Operating Voltage	250V/180V	
MPPT Operating Voltage Range	180V-750V	
MPPT Operating Voltage Range (Full-Load)	300V-680V	
Max. Number of PV Strings	6 (3/3)	
No. of MPPTs	2	
Output (Grid)		
Rated AC Active Power	16,000W	17,500W
Max. AC Apparent Power	18,000VA	20,000VA
Max. AC Active Power (PF=1)	18,000W	20,000W
Max. AC Output Current	3*42A	3*48A
Rated AC Voltage	220V, 3W+N+PE	
AC Voltage Range*	150V-300V (Adjustable)	
Rated Grid Frequency	60Hz	
Grid Frequency Range**	55Hz-65Hz (Adjustable)	
THDI	<3% (Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8 Lagging)	
Protection		
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II / AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
General		
Topology	Transformerless	
IP Rating	IP65	
Night Self Consumption	<1W	
Cooling	Fan cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<50dB	
Dimensions (W*H*D)	555mm*446mm*270mm	
Weight	41Kg	
HMI & COM		
Display	Wireless & APP+LED	
Communication	RS485, WiFi (Optional), GPRS (Optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
Grid Code	IEEE 1547, IEC 61727, IEC62116	
Warranty	5 Years / 10Years (Optional)	

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & DUAL MPPT

SE 17/20/22KTL-D3

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.6%
- String current 13.5A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Natural Cooling
- Integrated type II DC/AC SPD
- APP for local settings & display



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export control

Model	SE 17KTL-D3	SE 20KTL-D3	SE 22KTL-D3
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	98.2%	97.7%	98.2%
Input(PV)			
Max. Input Voltage	1000V		
Max. PV configuration (STC)	150%		
Rated Input Voltage	620V		
Max. Input Current	54A (2*27A)		
Max.Short Circuit Current	60A (2*30A)		
Start Input Voltage	250V		
MPPT Operating Voltage Range	180V-960V		
Max. Number of PV Strings	4 (2/2)		
No. of MPPTs	2		
Output(Grid)			
Rated AC Active Power	17,000W	20,000W	22,000W
Max. AC Apparent Power	18,700VA	22,000VA	24,200VA
Max. AC Active Power (PF=1)	18,700W	22,000W	24,200W
Max. AC Output Current	3*28.3A	3*33.5A	3*35A
Rated AC Voltage	380V/400V, 3W+N+PE		
AC Voltage Range ^①	277V-520V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ^②	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3% (Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	>0.99 Rated power (Adjustable 0.8 LG - 0.8 LD)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type II / AC Type II		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Natural cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise	<30dB		
Dimensions (W*H*D)	555mm*446mm*270mm		
Weight	35Kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication	RS485, WiFi / GPRS / 4G / LAN (Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116		
Warranty	5 Years		

Remarks : • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
 • Specifications are subject to change without advance notice.

THREE PHASE & DUAL MPPT

SE 25/28/30KTL-D3

Application: Small-sized Industrial and Residential Use



SUPERIOR EFFICIENCY

- Maximum efficiency 98.6%
- String current 13.5A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Integrated type II DC/AC SPD
- APP for local settings & display



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Supports export control

Model	SE 25KTL-D3	SE 28KTL-D3	SE 30KTL-D3
Efficiency			
Max. Efficiency	98.6%	98.6%	98.6%
European Efficiency	98.3%	98.3%	98.3%
Input(PV)			
Max. Input Voltage	1000V		
Max. PV configuration (STC)	150%		
Rated Input Voltage	620V		
Max. Input Current	81A (2*40.5A)		
Max.Short Circuit Current	90A (2*45A)		
Start Input Voltage	250V		
MPPT Operating Voltage Range	180V-960V		
Max. Number of PV Strings	6 (3/3)		
No. of MPPTs	2		
Output(Grid)			
Rated AC Active Power	25,000W	28,000W	30,000W
Max. AC Apparent Power	27,500VA	30,800VA	33,000VA
Max. AC Active Power (PF=1)	27,500W	30,800W	33,000W
Max. AC Output Current	3*40A	3*45A	3*48A
Rated AC Voltage	380V/400V, 3W+N+PE		
AC Voltage Range ^①	277V-520V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range ^②	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3% (Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	>0.99 Rated power (Adjustable 0.8 LG - 0.8 LD)		
Protection			
DC switch	Support		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
DC reverse connection	Support		
Surge Arrester	DC Type II / AC Type II		
Insulation detection	Support		
Leakage current protection	Support		
General			
Topology	Transformerless		
IP Rating	IP65		
Night Self Consumption	<1W		
Cooling	Fan cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise	<50dB		
Dimensions (W*H*D)	555mm*446mm*270mm		
Weight	41Kg		
HMI & COM			
Display	Wireless & APP+LED, LCD (Optional)		
Communication	RS485, WiFi / GPRS / 4G / LAN (Optional)		
Certification			
Safety	IEC62109-1, IEC62109-2		
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116		
Warranty	5 Years		

Remarks: • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & TRIPLE MPPT

SE 30/36KTL-QL3

Application: Large-scale Industrial and Commercial Sites



SUPERIOR EFFICIENCY

- Max efficiency 98.0%
- 4 independent MPPTs
- ECO Invention patent technology



HIGH RELIABILITY

- Integrated type II DC/AC surge arresters



INTELLIGENT MAINTENANCE

- Intelligent monitoring via APP & Web
- Multiple remote monitoring for convenient operation and maintenance
- Supports 3Phase 208/220/240V grid system

Model	SE 30KTL-QL3	SE 36KTL-QL3
Efficiency		
Max. Efficiency	98.0%	
Input (PV)		
Max. Input Voltage	800V	
Rated Input Voltage	360V	
Max. Input Current	130A (39A/39A/26A/26A)	156A (39A/39A/39A/39A)
Max.Short Circuit Current	150A (45A/45A/30A/30A)	180A (45A/45A/45A/45A)
Start Input Voltage/ Min. Operating Voltage	250V/200V	
MPPT Operating Voltage Range	200V-750V	
MPPT Operating Voltage Range (Full-Load)	300V-680V	
Max. Number of PV Strings	10 (3/3/2/2)	12 (3/3/3/3)
No. of MPPTs	4	
Output (Grid)		
Rated AC Active Power	29,000W	34,500W
Max. AC Apparent Power	33,000VA	40,000VA
Max. AC Active Power (PF=1)	33,000W	40,000W
Max. AC Output Current	3*83A	3*92A
Rated AC Voltage	220V, 3W+N+PE	
AC Voltage Range*	150V-300V (Adjustable)	
Rated Grid Frequency	60Hz	
Grid Frequency Range**	55Hz-65Hz (Adjustable)	
THDI	<3% (Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	>0.99 Rated power (Adjustable 0.8 Leading - 0.8 Lagging)	
Protection		
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II / AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
General		
Topology	Transformerless	
IP Rating	IP65	
Night Self Consumption	<1W	
Cooling	Fan cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<62dB	
Dimensions (W*H*D)	855mm*555mm*275mm	
Weight	65Kg	67Kg
HMI & COM		
Display	Wireless & APP+LED, LCD (Optional)	
Communication	RS485, WiFi (Optional), GPRS (Optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
Grid Code	IEEE 1547, IEC 61727, IEC62116	
Warranty	5 Years / 10Years (Optional)	

Remarks: • The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & QUAD MPPT

SE 50/60KTL

Application: Large-scale Industrial and Commercial Sites



SUPERIOR EFFICIENCY

- Maximum efficiency 99.0%
- String current 13A, compatible with high power modules
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Integrated type II DC/AC SPD
- APP for local settings & display
- High quality components use



INTELLIGENT MAINTENANCE

- String level I/V detect(Optional)
- Remote configuration and upgrade
- Supports export control

Model	SE 50KTL	SE 60KTL
Efficiency		
Max. Efficiency	99.0%	99.0%
European Efficiency	98.5%	98.5%
Input(PV)		
Max. Input Voltage	1100V	
Max. PV configuration (STC)	150%	
Rated Input Voltage	620V	
Max. Input Current	130A (39A/39A/26A/26A)	156A (39A/39A/39A/39A)
Max.Short Circuit Current	150A (45A/45A/30A/30A)	180A (45A/45A/45A/45A)
Start Input Voltage	250V	
MPPT Operating Voltage Range	200V-1000V	
Max. Number of PV Strings	10 (3/3/2/2)	12 (3/3/3/3)
No. of MPPTs	4	
Output(Grid)		
Rated AC Active Power	50,000W	60,000W
Max. AC Apparent Power	55,000VA	66,000VA
Max. AC Active Power (PF=1)	55,000W	66,000W
Max. AC Output Current	3*76A	3*92A
Rated AC Voltage	380V/400V, 3W+N+PE	
AC Voltage Range ^①	277V-520V (Adjustable)	
Rated Grid Frequency	50Hz / 60Hz	
Grid Frequency Range ^②	45Hz-55Hz / 55Hz-65Hz (Adjustable)	
THDI	<3% (Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	>0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)	
Protection		
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II / AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
General		
Topology	Transformerless	
IP Rating	IP65	
Night Self Consumption	<1W	
Cooling	Fan cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<62dB	
Dimensions (W*H*D)	855mm*555mm*275mm	
Weight	73Kg	74Kg
HMI & COM		
Display	Wireless & APP+LED, LCD (Optional)	
Communication	RS485, WiFi / GPRS / 4G / LAN (Optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, UNE 217001, IEC 61727/62116	
Warranty	5 Years	

Remarks : • ^{①②}The range of output voltage and frequency may vary depending upon different grid codes.
• Specifications are subject to change without advance notice.

THREE PHASE & MULTIPLE MPPT SE 110KTL-M3/125KTL-MH3



SUPERIOR EFFICIENCY

- Maximum efficiency 98.8%
- Compatible with high power modules (500W/600W+)
- 150% PV configuration, 110% output overload



HIGH RELIABILITY

- Integrated type II DC/AC SPD, AFCI detection optional
- IP66 waterproof and dustproof, C5 anti-corrosion
- High quality components use



INTELLIGENT MAINTENANCE

- String level I/V detect(Optional)
- Remote configuration and upgrade
- Supports export control

Model	SE 110KTL-M3	SE 125KTL-MH3
Efficiency		
Max. Efficiency	98.6%	98.8%
European Efficiency	98.2%	98.4%
Input(PV)		
Max. Input Voltage	1100V	
Max. PV configuration	150%	
Rated Input Voltage	620V	
Max. Input Current	6*32A+3*40A	
Start Input Voltage/ Min. Operating Voltage	250V/200V	
MPPT Operating Voltage Range	200V-1000V	
Max. Number of PV Strings	18 (9*2)	
No. of MPPTs	9	
Output(Grid)		
Rated AC Active Power	110,000W	125,000W
Max. AC Apparent Power	121,000VA	137,500VA
Max. AC Active Power (PF=1)	121,000W	137,500W
Max. AC Output Current	3*185.9A	3*165.5A
Rated AC Voltage	400V, 3W+N+PE	480V, 3W+PE
AC Voltage Range*	277V-520V (Adjustable)	300V-550V (Adjustable)
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range**	45Hz-55Hz / 55Hz-65Hz (Adjustable)	
THDI	<3% (Rated Power)	
DC Current Injection	<0.5%In	
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)	
Protection		
DC switch	Support	
Anti-islanding protection	Support	
AC overcurrent protection	Support	
AC short circuit protection	Support	
DC reverse connection	Support	
Surge Arrester	DC Type II / AC Type II	
Insulation detection	Support	
Leakage current protection	Support	
AFCI	Optional	
PID Recovery	Optional	
PV String monitoring	Optional	
Night load consumption monitoring	Optional	
General		
Topology	Transformerless	
IP Rating	IP66	
Night Self Consumption	<10W	
Cooling	Fan cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<75dB	
Dimensions (W*H*D)	670mm*850mm*356mm	
Weight	85Kg	
HMI & COM		
Display	Wireless & APP +LED, LCD (Optional)	
Communication	RS 485, Optional: WiFi / GPRS / 4G / LAN	
Certification		
Safety	IEC62109-1, IEC62109-2	
Grid Code	VDE-AR-N 4105, VDE-AR-N 4110, EN 50549-1/-2, CEI 0-21, UNE 206006/206007-1, UNE 217001	
Warranty	5 Years	

Remarks:

- The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice.

SINGLE PHASE AC COUPLED INVERTER

SE 4.6/5/6KAC

Energy Storage Inverter



HIGH YIELD

- Max Charge/Discharge efficiency 94%
- Convenient to retrofit existing grid-connected systems increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	SE 4K6AC	SE 5KAC	SE 6KAC
Efficiency			
Max. efficiency (Max. charge/discharge)	94.0%		
Input (BAT)			
Compatible battery type	Lithium-ion/Lead-acid		
Nominal battery voltage (V)	48		
Battery voltage range (V)	40-60		
Max. charge/discharge current (A)	100/100	100/100	120/120
Max. charge/discharge power (W)	5000/5000	5000/5000	6000/6000
Lithium battery charge curve	Self-adaption to BMS		
Output (Grid)			
Nominal AC output power (W)	4600	5000	6000
Max. AC output apparent power (VA)	4600	5500	6000
Max. AC output power (PF=1) (W)	4600	5500	6000
Max. AC output current (A)	22	25	27.2
Rated AC voltage (V)	220		
AC voltage range (V)	150-300 (adjustable)		
Rated grid frequency (Hz)	50/60		
AC frequency range (Hz)	45-55/55-65 (adjustable)		
Grid connection	single phase		
Power factor	> 0.99 @rated power (adjustable 0.8 LG - 0.8 LD)		
THDI	<3%		
Output (Back up)			
Nominal output voltage (V)	230		
Nominal output frequency (Hz)	50/60		
Nominal output power (W)	4600	5000	5000
Nominal output current (A)	20	21.7	21.7
Transfer time (ms)	10 (typ), 20 (max)		
THDV	<3% @100% R Load		
Protection			
Protection category	Class I		
Anti-islanding protection	Support		
AC overcurrent protection	Support		
AC short circuit protection	Support		
Surge Arrester	AC Type III		
Leakage current protection	Support		
AC overvoltage category	III		
General			
Max. operation altitude (m)	4000		
Noise emission (dB)	<35		
Ingress protection degree	IP65		
Operating temperature range (°C)	-25~60		
Relative humidity (%)	0~100		
Cooling concept	Natural Cooling		
Mounting	Wall bracket		
Dimensions (W*H*D)	515mm*450mm*175mm		
Weight	20Kg		
Battery connection way	Dedicated DC connector		
AC connection way (grid & back up)	Dedicated AC connector		
HMI & COM			
Display	LED+APP		
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet		
Certification			
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1		
Safety	IEC62040-1, IEC62477-1		
Warranty (years)	5/10 (optional)		

Remarks:

- The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice.

SINGLE PHASE HYBRID INVERTER

SE 4.6/5/6KHB-60, SE 4.6/5/6KHB-120



Energy Storage Inverter



HIGH YIELD

- Max efficiency 97.3%, Battery efficiency 94%
- Max. Charge/Discharge Current 120A
- Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

Model	SE 4K6HB-60	SE 4K6HB-120	SE 5KHB-60	SE 5KHB-120	SE 6KHB-60	SE 6KHB-120
Efficiency						
Max. efficiency (PV to AC)	97.3%					
Max. efficiency (BAT to AC)	94.0%					
Input (PV)						
MAX PV Power (W)	9000					
Max PV voltage (V)	550					
Max input current (input A/input B) (A)	15/15					
Max short current (input A/input B) (A)	20/20					
Start operating voltage (V)	90					
MPPT voltage range (V)	70-520					
No. of MPPT trackers	2					
String per MPP tracker	1					
Input (BAT)						
Compatible battery type	Lithium-ion/Lead-acid					
Nominal battery voltage (V)	48					
Battery voltage range (V)	40-60					
Max. charge/discharge current (A)	60/60	120/120	60/60	120/120	60/60	120/120
Max. charge/discharge power (W)	3000/3000	5000/5000	3000/3000	5000/5000	3000/3000	6000/6000
Lithium battery charge curve	Self-adaption to BMS					
Output (Grid)						
Nominal AC output power (W)	4600	4600	5000	5000	6000	6000
Max. AC output apparent power (VA)	4600	4600	5500	5500	6000	6000
Max. AC output power (PF=1) (W)	4600	4600	5500	5500	6000	6000
Max. AC output current (A)	22	22	25	25	27.2	27.2
Rated AC voltage (V)	220					
AC voltage range (V)	150-300 (adjustable)					
Rated grid frequency (Hz)	50/60					
AC frequency range (Hz)	45-55/55-65 (adjustable)					
Grid connection	single phase					
Power factor	> 0.99 @rated power (adjustable 0.8 LG - 0.8 LD)					
THDI	<3%					
Output (Back up)						
Nominal output voltage (V)	230					
Nominal output frequency (Hz)	50/60					
Nominal output power (W)	3000	4600	3000	5000	3000	6000
Nominal output current (A)	13	20	13	21.7	13	26
Transfer time (ms)	10(typ) / 20(max)					
THDV	<3% @100% R Load					
Protection						
Protection category	Class I					
DC switch	Support					
Anti-islanding protection	Support					
AC overcurrent protection	Support					
AC short circuit protection	Support					
DC reverse connection	Support					
Surge Arrester	DC Type III, AC Type III					
Insulation detection	Support					
Leakage current protection	Support					
PV overvoltage category	II					
AC overvoltage category	III					
General						
Max. operation altitude (m)	4000					
Noise emission (dB)	<35					
Ingress protection degree	IP65					
Operating temperature range (°C)	-25~60					
Relative humidity (%)	0~100					
Cooling concept	Natural Cooling					
Mounting	Wall bracket					
Dimensions (W*H*D)	515mm*450mm*175mm					
Weight	20Kg	25Kg	20Kg	25Kg	20Kg	25Kg
PV connection way	MC4/H4					
Battery connection way	Dedicated DC connector					
AC connection way (grid & back up)	Dedicated AC connector					
HMI & COM						
Display	LED+APP					
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WIFI/GPRS/Ethernet					
Certification						
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4777.2, EN 50549-1					
Safety	IEC62109-1&2, IEC62040-1, IEC62477-1					
Warranty (years)	5/10 (optional)					

Remarks:

- The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice.

THREE PHASE HYBRID INVERTER

SE 5/6/8/10K HB-T

Energy Storage Inverter



HIGH YIELD

- Max efficiency 98.4%, Battery efficiency 98%
- Max. Charge/Discharge Current 50A
- Reasonable energy control to increase the proportion of spontaneous use



HIGH RELIABILITY

- With BMS system to ensure high battery life
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade

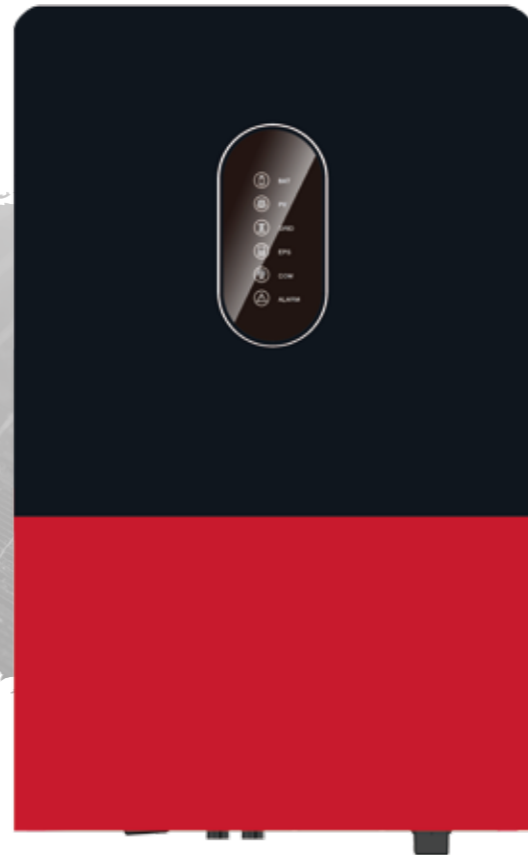
Model	SE 5K HB-T	SE 6K HB-T	SE 8K HB-T	SE 10K HB-T
Efficiency				
Max. efficiency (PV to AC)	98.2%	98.2%	98.4%	98.4%
Eur. efficiency (PV to AC)	97.2%	97.2%	97.9%	97.9%
Max. efficiency (BAT)	98.0%			
Input (PV)				
MAX PV Power (W)	8000	9000	12000	15000
Max PV voltage (V)	1000			
Max input current (input A/input B) (A)	15/22	15/22	30/22	30/22
Max short current (input A/input B) (A)	20/30		40/30	
MPPT voltage range (V)	160-950			
No. of MPPT trackers	2			
String per MPP tracker	1+1		2+1	
Input (BAT)				
Compatible battery type	Lithium-ion/Lead-acid			
Nominal battery voltage (V)	200-600			
Battery voltage range (V)	150-600			
Max. charge/discharge current (A)	25/25	25/25	2*25/2*25	2*25/2*25
Max. charge/discharge power (W)	8000/5200	9000/6300	12000/10500	15000/10500
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power (W)	5000	6000	8000	10000
Max. AC output apparent power (VA)	5500	6600	8800	10000
Max. AC output power (PF=1) (W)	5500	6600	8800	10000
Max. AC output current (A)	3*8.3	3*10	3*13.3	3*15.2
Rated AC voltage (V)	380/400			
AC voltage range (V)	277-520 (adjustable)			
Rated grid frequency (Hz)	50/60			
AC frequency range (Hz)	45-55/55-65 (adjustable)			
Grid connection	Three phase			
Power factor	>0.99 @rated power (adjustable 0.8 LG - 0.8 LD)			
THDI	<3%			
Output (Back up)				
Nominal output voltage (V)	380/400V			
Nominal output frequency (Hz)	50/60			
Nominal output power (W)	5000	6000	8000	10000
Nominal output current (A)	3*7.6	3*9.1	3*12.2	3*15.2
Transfer time (ms)	10 (typ) / 20 (max)			
THDV	<3 (R Load), 5 (RCD Load)			
Protection				
Anti-islanding protection	Support			
AC overcurrent protection	Support			
AC short circuit protection	Support			
AC over-voltage protection	Support			
Surge Arrester	DC Type2, AC Type2			
Insulation detection	Support			
GFCI	Support			
AFCI	Optional			
RSD	Optional			
General				
Max. operation altitude (m)	4000			
Noise emission (dB)	30			
Ingress protection degree	IP65			
Operating temperature range (°C)	-25~45			
Relative humidity (%)	0~100			
Cooling concept	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	450mm*550mm*175mm			
Weight (kg)	20			25
PV connection way	MC4 / H4			
Battery connection way	Dedicated DC connector			
HMI & COM				
Display	LED+APP (Bluetooth)			
Communication interface	BMS (CAN/RS485), WiFi/GPRS/4G/Ethernet (optional), DI (DRM/RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)			
Certification				
Grid	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98			
Safety	IEC62109-1&2, IEC62040-1, IEC62477-1			
Warranty (years)	5/10 (optional)			

- Remarks:**
- The range of output voltage and frequency may vary depending upon different grid codes.
 - Specifications are subject to change without advance notice.

SINGLE PHASE HYBRID INVERTER

SE 6/8/10KHB-220/UL

Energy Storage Inverter



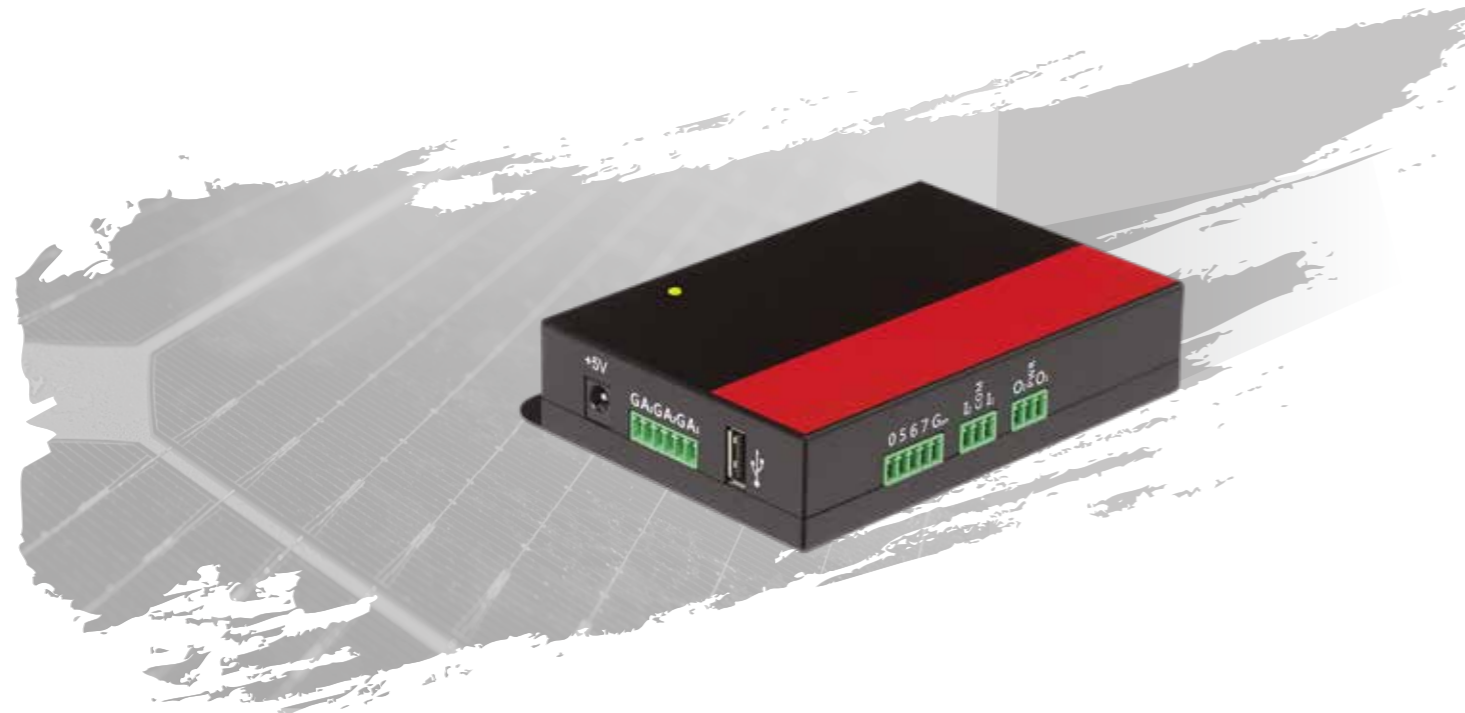
FEATURES

- »» Max efficiency 98.0%, CEC efficiency 97.5%
- »» Max. PV Power 15000W
- »» String current 22A, compatible with high power modules
- »» Compatible with lead-acid batteries and lithium battery energy storage systems
- »» Split phase out available for 100% back up power
- »» Advanced parallel, up to 9Pcs
- »» Remote configuration and upgrade

Model	SE 6KHB-130/UL	SE 8KHB-180/UL	SE 10KHB-200/UL
Efficiency			
Max. efficiency (PV to AC)		98.0%	
Max. efficiency (BAT to AC)		94.5%	
Input (PV)			
MAX PV Power (W)	9000	12000	15000
Max PV voltage (V)		600	
Max input current (input A/input B) (A)	30/20		30/20/20
Max short current (input A/input B) (A)	40/30		40/30/30
Start operating voltage (V)		90	
MPPT voltage range @full load (V)		70-550	
No. of MPPT trackers	2	3	3
String per MPP tracker		2	
Input (BAT)			
Compatible battery type		Lithium-ion/Lead-acid	
Nominal battery voltage (V)		48	
Battery voltage range (V)		40-60	
Max. charge/discharge current (A)	130/130	180/180	210/210
Max. charge/discharge power (W)	6000/6000	8000/8000	10000/10000
Lithium battery charge curve		Self-adaption to BMS	
Output (Grid)			
Nominal AC output power (W)	6000	8000	10000
Max. AC output apparent power (VA)	6600	8800	10000
Max. AC output power (PF=1) (W)	6600	8800	10000
Max. AC output current (A)	27.5	36.6	45.4
Rated AC voltage (V)		120/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)	
AC voltage range (V)		150-300 (adjustable for 240V system)	
Rated grid frequency (Hz)		60	
AC frequency range (Hz)		55-65 (adjustable)	
Power factor		> 0.99 @rated power (adjustable 0.8 LG - 0.8 LD)	
THDI		<3%	
Output (Back up)			
Nominal output voltage (V)		120/240V (Split phase) / 230V (Single phase) / 208V (2/3 phase)	
Nominal output frequency (Hz)		60	
Nominal output power (W)	6000	8000	10000
Nominal output current (A)	27.2	27.2	45.4
Transfer time (ms)		10 (typ) / 20 (max)	
THDV		<3% @100% R Load	
Protection			
Protection category		Class I	
DC switch		Support	
Anti-islanding protection		Support	
AC overcurrent protection		Support	
AC short circuit protection		Support	
DC reverse connection		Support	
Surge Arrester		DC Type II, AC Type II	
Insulation detection		Support	
Leakage current protection		Support	
PV overvoltage category		II	
AC overvoltage category		III	
AFCI		Y	
RSD		Y (MLRSD Sunspec or Tigo Transmitter)	
General			
Max. operation altitude (m)		4000	
Noise emission (dB)(Typical)		<40	
Ingress protection degree		IP65	
Operating temperature range (°C)		-25~60	
Relative humidity (%)		0~100	
Cooling concept		Fan Cooling	
Mounting		Wall bracket	
Dimensions (W*H*D)		420mm*600mm*175mm	
Weight (kg)	25		30
HMI & COM			
Display		LED+APP	
Communication interface		RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/Ethernet	
Certification			
Grid		IEEE 1547	
Safety		UL 1741/CSA C22.2/UL 1699B	
Warranty (years)		5/10 (optional)	

- Remarks:**
- The range of output voltage and frequency may vary depending upon different grid codes.
 - Specifications are subject to change without advance notice.

DATA LOGGER V1000+



- Built-in Web Server, supporting LAN monitoring
- 12 Months data storage
- Automatic network-clock synchronization
- RS485 Interface for the Connection of Inverters
- Standard RJ45 Path Cable
- Supports export control

Model	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)	118mm*78mm*29mm
Certification	
Safety	FCC, CE, ROHS

WIFI Communication Module PV WIFI-R



- Plug and play, quick and convenient
- Preferred monitoring solution for residential us

Model	PV WIFI-R
Connection	TTL
Standards	802.11 b/g/n
Transmission maximum distance	100m Unobstructed environment
Setting	APP/WEB
Input	
Input Voltage	DC 5V
Static Power Consumption	<1.6W
General	
Operating temperature	-25°C~60°C
Humidity	0%~100% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	71.4mm*71mm*38mm
Certification	
Safety	FCC, CE, ROHS

GPRS Communication Module PV GPRS-R



- Plug and play, quick and convenient
- Mobile internet monitoring, best suited for rural and remote areas

Model	PV GPRS-R
Connection	TTL
Standards	GSM/GPRS
Transmission maximum distance	---
Setting	Plug and Play
Input	
Input Voltage	DC 5V
Static Power Consumption	<2W
General	
Operating temperature	-25°C~60°C
Humidity	0%~100% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	71.4mm*71mm*38mm
Certification	
Safety	FCC, CE, ROHS

4G Communication Module PV 4G-R



- Plug and play, quick and convenient
- Mobile internet monitoring, best suited for rural and remote areas

Model	PV 4G-R
Connection	TTL
Standards	FDD/TDD - LTE
Transmission maximum distance	---
Setting	Plug and Play
Input	
Input Voltage	DC 5V
Static Power Consumption	<3.5W
General	
Operating temperature	-25°C~60°C
Humidity	0%~90% relative humidity, no condensation
IP Rating	IP65
Dimension (L*W*H)	122.8mm*79mm*34mm
Certification	
Safety	FCC, CE, ROHS