

On-Grid PV Inverter
for Residential Use



Single Phase & Single MPPT SE 2KTL/3KTL

Intelligent, Reliable & Ultimately Efficient

Application: Family Use



High Efficiency

- Max efficiency 97.8%, European efficiency 97.5%
- Self-learning MPPT technology with higher solar panel utilization
- Extreme low Operating Voltage/Start Input Voltage to prolonged power generation time



Secured Reliability

- Excellent design of electromagnetic radiation with no harm to human health
- Super power grid adaptability and stable application for residential solar power projects
- Die-cast aluminum enclosure with higher heat dissipation reliability



Intelligent Maintenance

- Light weight and small size for easy installation
- Intelligent one key self-test for grid connection
- Multiple remote monitoring for convenient operation and maintenance

Model	SE 2KTL (PVT-SE2KTL)	SE 3KTL (PVT-SE3KTL)
Efficiency		
Max. Efficiency	97.8%	97.8%
European Efficiency	97.5%	97.5%
Input(PV)		
Max. Input Voltage	600V	
Over-Configuration PV Power Ratio	130%	
Rated Input Voltage	360V	
Max. Input Current	12.5A	
Start Input Voltage/Min. Operating Voltage	90V/70V	
MPPT Operating Voltage Range	70V-580V	
MPPT Operating Voltage Range (Full-Load)	200V-520V	240V-520V
Max. Number of PV Strings	1	1
No. of MPPT's	1	
Output(Grid)		
Rated AC Active Power	2,000W	3,000W
Max. AC Apparent Power	2,100VA	3,150VA
Max. AC Active Power (PF=1)	2,100W	3,150W
Max. AC Output Current	9.5A	14.3A
Rated AC Voltage	220V/230V, L+N+PE	
AC Voltage Range*	160V-300V(adjustable)	
Rated Grid Frequency	50Hz/60Hz	
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz	
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	optional	
Anti-islanding protection	support	
AC overcurrent protection	support	
AC short circuit protection	support	
DC reverse connection	support	
Surge Arrester	AC Type III	
Insulation detection	support	
Leakage current protection	support	
General		
Topology	Transformerless	
IP Rating	IP65	
Cooling	Natural cooling	
Operating Temperature Range	-25°C-60°C	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Noise	<25dB	
Dimensions (W*H*D)	285*336*125mm	
Weight	8.8Kg	
HMI & COM		
Display	Bluetooth & LED	
Communication	RS485(Optional), WIFI (Optional), GPRS(Optional)	
Certification		
Safety	IEC62109-1, IEC62109-2	
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, VDE 0126-1-1, UL1547, AS4777, G83	
Environment & Energy efficiency	IEC 60068, IEC61683, EN50530	
Warranty	5 Years/10 Years(Optional)	

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

On-Grid PV Inverter
for Residential Use



Single Phase & Dual MPPT SE 5KTL

Intelligent, Reliable & Ultimately Efficient

Application: Family Use



High Efficiency

- Max efficiency 98.0%, European efficiency 97.4%
- Self-learning MPPT technology with higher solar panel utilization
- Extreme low Operating Voltage/Start Input Voltage to prolonged power generation time



Secured Reliability

- Excellent design of electromagnetic radiation with no harm to human health
- Super power grid adaptability and stable application for residential solar power projects
- Die-cast aluminum enclosure with higher heat dissipation reliability



Intelligent Maintenance

- Light weight and small size for easy installation
- Intelligent one key self-test for grid connection
- Multiple remote monitoring for convenient operation and maintenance

Model	SE 5KTL (PVT-SE5KTL)
Efficiency	
Max. Efficiency	98.0%
European Efficiency	97.4%
Input(PV)	
Max. Input Voltage	600V
Over-Configuration PV Power Ratio	130%
Rated Input Voltage	360V
Max. Input Current	20.8A (2*10.4A)
Start Input Voltage/Min. Operating Voltage	90V/70V
MPPT Operating Voltage Range	70V-580V
MPPT Operating Voltage Range (Full-Load)	240V-520V
Max. Number of PV Strings	2 (1/1)
No. of MPPTs	2
Output(Grid)	
Rated AC Active Power	5,000W
Max. AC Apparent Power	5,250VA
Max. AC Active Power (PF=1)	5,250W
Max. AC Output Current	23.6A
Rated AC Voltage	220V/230V, L+N+PE
AC Voltage Range*	160V-300V(adjustable)
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz
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	optional
Anti-islanding protection	support
AC overcurrent protection	support
AC short circuit protection	support
DC reverse connection	support
Surge Arrester	AC Type III
Insulation detection	support
Leakage current protection	support
General	
Topology	Transformerless
IP Rating	IP65
Cooling	Natural cooling
Operating Temperature Range	-25°C-60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m
Noise	<25dB
Dimensions (W*H*D)	335*426*125mm
Weight	12.8kg
HMI & COM	
Display	Bluetooth & LED
Communication	RS485(Optional), WiFi (Optional), GPRS(Optional)
Certification	
Safety	IEC62109-1, IEC62109-2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Grid Code	VDE-AR-N 4105, IEC61727, IEC62116, VDE 0126-1-1, UL1547, AS4777, 683
Environment & Energy efficiency	IEC 60068, IEC61683, EN50530
Warranty	5 Years/10 Years(Optional)

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

On-Grid PV Inverter
for Residential Use



Three Phase & Dual MPPT SE 6KTL/8KTL/10KTL/12KTL/15KTL

Intelligent, Reliable & Ultimately Efficient

Application: Residential Use



High Efficiency

- Max efficiency 98.4%, European efficiency 98.0%
- Dual independent MPPT for flexible adoption to complex roof environments
- Ultra-wide voltage range (160V-950V) to prolonged power generation time



Secured Reliability

- Excellent design of electromagnetic radiation with no harm to human health
- Die-cast aluminum enclosure with higher heat dissipation reliability
- Top-ranking high quality components to guarantee the long product service life



Intelligent Maintenance

- Light weight and small size for easy installation
- Intelligent one key self-test for grid connection
- Remote configuration and remote firmware upgrading to reduce operation and maintenance cost

Model	SE 6KTL	SE 8KTL	SE 10KTL	SE 12KTL	SE 15KTL
Efficiency					
Max. Efficiency	98.2%	98.2%	98.4%	98.4%	98.4%
European Efficiency	97.8%	97.8%	98.0%	98.0%	98.0%
Input(PV)					
Max. Input Voltage	1000V				
Over-Configuration PV Power Ratio	130%				
Rated Input Voltage	620V				
Max. Input Current	2*11A				
Start Input Voltage/Min. Operating Voltage	200V/160V				
MPPT Operating Voltage Range	160V-950V				
MPPT Operating Voltage Range (Full-Load)	380V-800V				
Max. Number of PV Strings	2(1/1)				
No. of MPPTs	2				
Output(Grid)					
Rated AC Active Power	6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA
Max. AC Active Power (PF=1)	6,600W	8,800W	11,000W	13,200W	16,500W
Max. AC Output Current	10A	13A	16A	18.2A	22.7A
Rated AC Voltage	380V/400V, 3W+N+PE				
AC Voltage Range*	277V-520V(adjustable)				
Rated Grid Frequency	50Hz/60Hz				
Grid Frequency Range**	45Hz-55Hz/55Hz-65Hz				
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	AC Type III				
Insulation detection	support				
Leakage current protection	support				
General					
Topology	Transformerless				
IP Rating	IP65				
Cooling	Natural cooling				
Operating Temperature Range	-25°C-60°C				
Relative Humidity Range	0-100%				
Max. Operating Altitude	4000m				
Noise	<25dB				
Dimensions (W*H*D)	400*500*190mm				
Weight	19.8Kg	21.8Kg			
HMI & COM					
Display	Bluetooth & LED, LCD(Optional)				
Communication	RS485, WIFI(Optional), GPRS(Optional)				
Certification					
Safety	IEC62109-1, IEC62109-2				
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				
Grid Code	NB/T32004, VDE-AR-N 4105, IEC61727, IEC62116, VDE 0126-1-1, AS4777				
Environment & Energy efficiency	IEC 60068, IEC61683				
Warranty	5 Years/10 Years(Optional)				

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