WG1-5kW-S

Single Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 150% DC Input Oversizing
- Wide MPPT voltage range: 50V-550V
- Max. input current per string: 20A, Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection Degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	WG1KTL-S	WG1.5KTL-S	WG2KTL-S	WG2.5KTL-S	WG3KTL-S	WG3.68KTL-S	WG4KTL-S	WG4.2KTL-S	WG4.6KTL-S	WG5KTL-S
Input (DC)										
Max. Input Power	1.5kW	2.25kW	3kW	3.75kW	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW
Max. Input Voltage	600V									
Start Voltage	50V									
Rated Input Voltage	360V									
MPPT Voltage Range	50V ~ 550V									
Number of MPP Trackers / String per MPPT	1 / 1									
Max. Current per MPPT	20A									
Max. Short Circuit Current per MPPT	26A									
Output (AC)										
Max. Output Current	5A	7.5A	10A	12.5A	15A	16A	20A	21A	22.7A[d]	22.7A[d]
Rated Output Power	1kW	1.5kW	2kW	2.5kW	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW[a]
Max. Output Power	1.1kVA	1.65kVA	2.2kVA	2.75kVA	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA[b]	5kVA[c]
Rated Grid Frequency	50Hz / 60Hz									
Rated Grid Voltage	220Vac / 230Vac / 240Vac									
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)									
THDi	<3% (Rated Power)									
Efficiency										
Max. Efficiency	97.30%				97.60%		97.80%			
European Efficiency	97.00%				97.20%		97.30%			
MPPT Efficiency	99.90%									
Protection										
DC Reverse Polarity Protection	Yes									
Anti-islanding Protection	Yes									
AC Short Circuit Protection	Yes									
Residual Current Monitoring Unit	Yes									
Insulation Resistance Monitoring	Yes									
Ground Fault Monitoring	Yes									
Grid Monitoring	Yes									
PV String Monitoring	Yes									
Surge Protection	Type II									
AFCI Protection	Optional									
Communication										
Display	LCD / LED+APP									
Communication	RS485 / WiFi / 4G									
Standard Compliance										
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116									
General Data										
Dimensions (W x H x D)	270 x 250 x 130 mm						270 x 250 x 145 mm			
Weight	6kg									
Operating Temperature Range	-30° C ~ +60° C									
Cooling Method	Natural									
Protection Degree	IP66									
Max. Operating Altitude	4000m									
Relative Humidity	0 ~ 100%									
Topology	Transformerless									
Night Power Consumption	<1W									

- a: For AS4777, Rated Output Power of XG5KTL-S is 4999W.
- b: For VDE-AR-N 4105, Max. Output Power of XG4.6KTL-S is 4600VA. For AS4777, Max.Output Power of XG4.6KTL-S is 4999VA.
- c: For AS4777, Max. Output Power of XG5KTL-S is 4999VA.
- d: For AS4777, Max. Output Current of XG4.6KTL-S and XG5KTL-S is 21.7A.

WG3-10kW

Single Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 2 MPP Trackers , Max. input current per string: 20A
- 150% DC Input Oversizing
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automaticallydetect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection Degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	WG3KTL-2M	WG3.68KTL	WG4KTL	WG4.2KTL	WG4.6KTL	WG5KTL	WG6KTL	WG7KTL	WG8KTL	WG10KTL	WG7KTL1	WG8KTL1	WG10KTL1
Input (DC)													
Max. Input Power	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW	9kW	10.5kW	12kW	15kW	10.5kW	12kW	15kW
Max. Input Voltage	600V												
Start Voltage	80V												
Rated Input Voltage	360V												
Full-load MPP Voltage Range	120V ~ 480V	135V ~ 480V	145V ~ 480V	150V ~ 480V	160V ~ 480V	170V ~ 480V	190V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V
MPPT Voltage Range	80V ~ 560V												
Number of MPP Trackers	2												
Number of String per MPPT	1 / 1										1 / 2		
Max. Current per MPPT	20A										14A / 28A		
Max.Short Circuit Current per MPPT	26A										18.2A / 36.4A		
Output (AC)													
Max. Output Current	15A	16A	20A	21A	23A	25A	30A	35A	40A	45.5A	35A	40A	45.5A
Rated Output Power	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW	6kW	7kW	8kW	10kW	7kW	8kW	10kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA	5.5kVA	6.6kVA	7.7kVA	8.8kVA	10kVA	7.7kVA	8.8kVA	10kVA
Rated Grid Frequency	50Hz / 60Hz												
Rated Grid Voltage	220Vac / 230Vac / 240Vac												
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)												
THDi	<3% (Rated Power)												
Efficiency													
Max. Efficiency	98.10%		98.30%					98.10%					
European Efficiency	97.30%		97.40%					97.30%					
MPPT Efficiency	99.90%												
Protection													
DC Reverse Polarity Protection	Yes												
Anti-islanding Protection	Yes												
AC short Circuit Protection	Yes												
Residual Current Monitoring Unit	Yes												
Insulation Resistance Monitoring	Yes												
Ground Fault Monitoring	Yes												
Grid Monitoring	Yes												
PV String Monitoring	Yes												
Surge Protection	Type II												
AFCI Protection	Optional												
Communication													
Display	LCD / LED+APP												
Communication	RS485 / WiFi / 4G												
Standard Compliance													
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, C10/C11, G98/G99, RD244，UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004												
General Data													
Dimensions (W x H x D)	380 x 380 x 160 mm												
Weight	13kg												
Operating Temperature Range	-30° C ~ +60° C												
Cooling Method	Natural									Smart Cooling			
Protection Degree	IP66												
Max. Operating Altitude	4000m												
Relative Humidity	0 ~ 100%												
Topology	Transformerless												
Night Power Consumption	<1W												

● a：For AS4777,Rated Output Power of XG5KTL is 4999W.

● b：For VDE-AR-N 4105,Max. Output Power of XG4K6TL is 4600VA.For AS4777,Max. Output Power of XG4K6TL is 4999VA.

● c：For AS4777,Max. Output Power of XG5KTL is 4999VA.

● d：For AS4777,Max. Output Current of XG4K6TL and XG5KTL is 21.7A.

Chindow800-EU
Chindow1000-EU
Chindow1200-EU

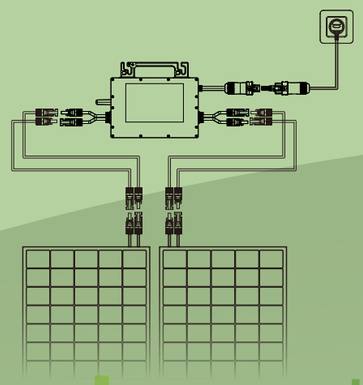
Models are available: 800 / 1000 / 1200

Features

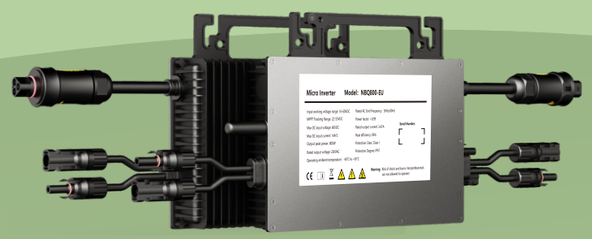
- Plug-and-Play Made Effortless
- Single unit connects to 2 PV panel
- IP67 protection degree
- MPPT for maximum power generation and efficiency
- Wi-Fi remote monitoring
- Multiple protection functions
- Suitable for crystalline silicon and thin film PV panel

Standards

VDE: VDE-AR-N 4105 CE-LVD: EN62109-1/2
CE-EMC: EN61000-6-2/4 EN61000-3-2/3 RoHS: IEC62321



NBQ-800/1000/1200 EU Wiring Diagram



NBQ-800/1000/1200 EU Product Diagram

Data Sheet

MODEL	800-EU	1000-EU	1200-EU
Input Data (DC)			
Recommended solar panel input power	200-430W x 2	200-530W x 2	200-625W x 2
Number of DC input connections	MC4 x 2		
Max. input voltage	60V		
Max. input short-circuit current	20A*2		
PV Operating voltage	16-60V		
Start-up voltage	22V		
MPPT tracking range	22-55V		
MPPT tracking accuracy	>99.5%		
Max. continuous input current	14A*2	16A*2	18A*2
Output Data (AC)			
Max. continuous output power	800W	1000W	1200W
Nominal output voltage	230V		
Operating voltage range	190-270V		
Max. continuous output current	3.47A	4.34A	5.21A
Nominal output frequency	50Hz/60Hz		
Output frequency range	47.5-51.5Hz / 57.5-62.5Hz		
THD	<5%		
Power factor	>0.99		
Peak efficiency	96%		
Protective class	Class I		
Protection Function			
Operating ambient temp.	-40°C to +65°C		
Indication light quantity	Working status: LED light		
Communication connection mode	Wi-Fi / 2.4G		
Cooling method	Natural cooling (no fan)		
Working environment	Indoor and Outdoor		
Weight	2.52 kg		
Size (L*W*H)mm	227mm*195.5mm*42mm		