



LB3-10kW

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 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

	LB3KTL-1M	LB3KTL	LB3K6TL	LB4KTL	LB4K2TL	LB4K6TL	LB5KTL	LB6KTL	LB7KTL	LB8KTL	LB10KTL	LB7KTL1	LB8KTL1	LB10KTL1	
Input (DC)															
Max. Input Power	4.5kW	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	190V ~ 480V	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	1	2													
Number of String per MPPT	1	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	LED / LCD / WiFi+App														
Communication	RS485 / WiFi / 4G														
Standard Compliance															
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99														
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011														
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 air 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.



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