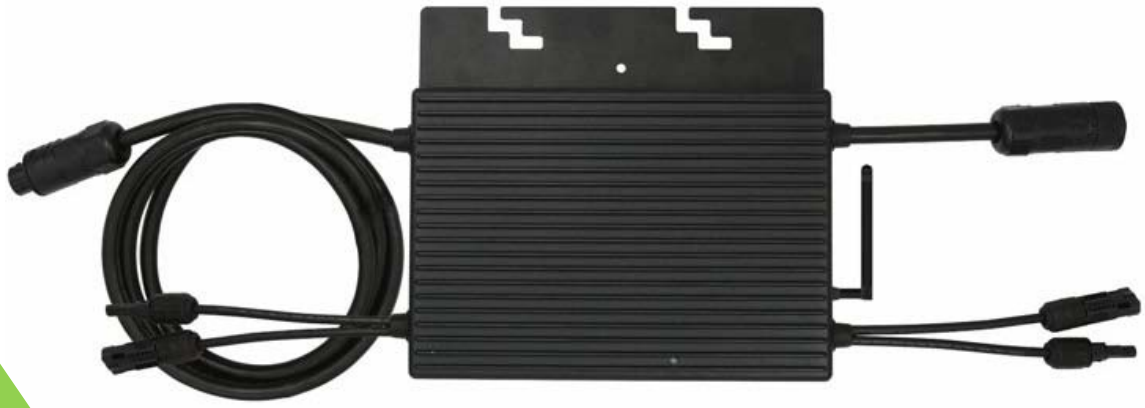
LS600-Z Series Microinverters



LS600-Z™ Series Microinverters

The LeadSolar LS600-Z™ microinverters optimize both residential and commercial solar PV projects by delivering increased energy harvest, while offering maximum flexibility in panel deployment. With its all-AC approach, integrated grounding, self-contained bus cable, and ability to support mixed module deployments on 30A branch circuits, the LS600-Z™ simplifies both design and installation. Coupled with Digi™ Communication and LinkView™ monitoring software, the LS600-Z™ can form the backbone of a superior solution for your PV projects.

Refer to LS600X Datasheet for 96-cell modules

Performance
- Maximizes energy production over life of system
- Minimizes losses due to shading, dust, and debris
- Eliminates single point of module failure

Versatility
- Supports most 60 or 72 cell panels
- Available in 240V, 208V, or 277V
- Zigbee communication protocol
- Allows for variable module placement
- Supports up to 30A branch circuits

Simplicity
- All AC design – No string calculations
- No GEC needed for microinverters
- Easy installation with integrated cable

Reliability & Safety
- Highly robust NEMA 6 construction
- Industry-leading warranty, up to 25 years
- NEC 2014 rapid shutdown compliant
- CA Rule 21 (UL 1741-SA) compliant
- AC branch circuits will not support arc faults

LS600-Z™

INPUT DATA (DC)	LS600-240-Z	LS600-208-Z	LS600-277-Z
Recommended module power (STC)		230 – 350+ W	
Module compatibility		Two 60 or 72 cell panels	
Maximum input voltage		60V	
MPPT voltage range	27 - 45V	27 - 45V	27 - 45V
Min/Max start voltage	27 - 45V	27 - 45V	27 - 45V
Operating voltage range	22 - 55V	27 - 45V	22 - 55V
Maximum DC short circuit current		30A (15 A per MPPT)	
Maximum input current		19.4A (9.7 A per MPPT)	
OUTPUT DATA (AC)	**240 V**	**208 V**	**277V**
Peak power	700W	600W	700W
Maximum continuous output power	700W	600W	700W
Maximum continuous output current[1]	2.92A / 2.4A / 2.0A	2.88A	2.53 / 2.4A / 2.0A
Nominal voltage	240V	208V	277V
Nominal operating voltage range[2]	211 - 264V	183 -229V	244 -305V
Over/under voltage trip time		OVP(110%, 13s), UVP(88%, 21s)	
Nominal operating frequency		60Hz	
Nominal operating frequency range[2]		59.3 - 60.5 Hz	
Over/under frequency trip time		OFP(60.5Hz, 300s), UFP(58.5Hz, 300s)	
Maximum units per 20A branch circuit[1]	5 / 8	5	6 / 8
Maximum units per 30A branch circuit[1]	8 / 10 / 12	8	9 / 10 / 12
Standby power consumption		<100mW	
EFFICIENCY			
Peak inverter efficiency	96.00%	96.00%	96.20%
CEC weighted efficiency	95.50%	95.50%	96%
Static MPPT efficiency	99.40%	99.40%	99.40%
Power factor		>.95	
Total harmonic distortion		< 4%	
MECHANICAL DATA			
Operating ambient temp range		-40°C to 65°C (-40°F to 149°F)	
Dimensions (W x H x D)[4]		26cm x 18cm x 3.1cm (10.2in x 7.1in x 1.2in)	
Weight		3.5kg (7.7lbs)	
Cooling		Convection (no fan required)	
Enclosure environmental rating		NEMA 6	
OTHER FEATURES			
Communication		Zigbee[3]	
Monitoring		Lead Link™ - Supports Ethernet/WiFi connection to router or cellular	
Protect function		Overload, short circuit, over/under voltage, over temperature	
Integrated grounding		Meets NEC 690.35 - Ground Fault Protection internal to microinverter	
Compliance		IEC 61727, IEC 62116, IEC/EN 62109-1 & -2, AS4777.2 & .3, AS/NZ 3100, IEEE 1547, FCC Part 15B, CAN/CSA-C22.2 NO.0-M91, 0.4-04 and 107.1-01, G83/G59, NBT 32004, CA Rule 21 (UL 1741-SA)	

1. Factory-set current limits allow additional microinverters per branch circuit.
2. Can be extended to conform to non-standard utility requirements.
3. LS600 microinverters are also available with PLC communication. See the LS-600-P datasheet.
4. Excluding mounting bracket.

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