



## LS600X™ Series Microinverters

The LeadSolar LS600X™ microinverters optimize both residential and commercial solar PV projects delivering increased energy harvest, while offering maximum flexibility in panel deployment. With its all-AC approach, integrated grounding, selfcontained bus cable, and ability to support 96 cell modules on 30A branch circuits, the LS600X<sup>™</sup> simplifies both design and installation. Coupled with the Digi™ communication gateway and LinkView™ monitoring software, the LS600X<sup>™</sup> can form the backbone of a superior solution for your PV projects.

#### **Performance**

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

#### () Versatility

- Supports most 96 cell panels.
- Zigbee communication protocol
- Allows for variable module placement
- Supports 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













INPUT DATA (DC)	LS600X-240-Z
Recommended module power (STC)	330 – 400 W
Module compatibility	Two 96 cell panels
Maximum input voltage	80V <sup>'</sup>
MPPT voltage range (Full Power)	50 - 70V
Min/Max start voltage	27 - 50V
Operating voltage range	45 - 75V
Maximum DC short circuit current	30A (15 A per MPPT)
Maximum input current	14.6A (7.3 A per MPPT)
OUTPUT DATA (AC)	240 V
Peak power	700W
Maximum continuous output power	700W
Maximum continuous output current <sup>4</sup>	2.92A / 2.66A/2.4A
Nominal voltage <sup>1</sup>	240V
Nominal operating voltage range <sup>2</sup>	211 - 264V
Over/under voltage trip time	OVP(110%, 13s), UVP(88%, 21s)
Nominal operating frequency	60Hz
Nominal operating frequency range <sup>1</sup>	59.3 - 60.5 Hz
Over/under voltage trip time	OFP(60.5Hz, 300s), UFP(58.5Hz, 300s)
Power factor	>0.95 (±0.8 adjustable)
Maximum units per 30A branch circuit <sup>4</sup>	8/9/10
Standby power consumption	<300mW
EFFICIENCY	
Peak inverter efficiency	96.5%
CEC weighted efficiency	96%
Static MPPT efficiency	99.4%
Power factor	>.95 (±0.8 adjustable)
Total harmonic distortion	< 4%
MECHANICAL DATA	
Operating ambient temp range	-40°C to 55°C (-40°F to 131°F)
Dimensions ( $W \times H \times D$ ) <sup>3</sup>	27.6cm x 24cm x 4.9cm (10.9in x 9.4in x 1.9in)
Weight	4.2kg (9.3lbs)
Cooling	Convection (no fan required)
Enclosure environmental rating	NEMA 6
OTHER FEATURES	
Communication	Zigbee
Monitoring	Digi Gateway- 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, UL 1741 SA/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)
1 209 £ 277\/ versions also available	,

- 1. 208 & 277V versions also available
- 2. Can be extended to conform to non-standard utility requirements
- 3. Excluding mounting bracket
- 4. Factory-set current limits allows for larger branch circuits

# LeadSolar Energy, Inc.

www.leadsolarenergy.com

**(888) 405-2860** 

**■**info@leadsolarenergy.com