LS600-240-P Microinverter

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The LeadSolar LS600-240-P microinverter optimizes residential 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, the LS600-240-P simplifies both design and installation. Coupled with LeadSolar's LinkGateway™ communications and LinkView™ monitoring software, the LS600-240-P 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 loses due to shading, dust, and debris
- Eliminates single point of module failure

Versatility
- Supports most 60 or 72 cell panels.
- Power Line Communication (PLC) protocol
- Allows for variable module placement
- Supports 15A & 20A 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

LS600-240-P™

INPUT DATA (DC)	LS600-240-P
Recommended module power (STC)	230 – 400+ W
Module compatibility	Two 60 or 72 cell panels
Maximum input voltage	60V
MPPT voltage range (Full Power)	27-45V
Min/Max start voltage	27 - 45V
Operating voltage range	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)	
Peak power	700W
Maximum continous output power	700W
Maximum continuous output current[1]	2.92A / 2.5A / 2.0A
Nominal voltage[2]	240V
Nominal operating voltage range[3]	211 - 264V
Over/under voltage trip time	OVP(110%, 13s), UVP(88%, 21s)
Nominal operating frequency	60Hz
Nominal operating frequency range[3]	59.3 - 60.5 Hz
Over/under voltage trip time	OFP(60.5Hz, 300s), UFP(58.5Hz, 300s)
Power factor	>0.95
Max units per 20A branch circuit[1]	4 / 5 / 8
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 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	PLC (Power Line Communications)
Monitoring	LinkGateway™ 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. 208 & 277V versions also available
3. Can be extended to conform to non-standard utility requirements
4. Excludes mounting bracket

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