

LS1400 Series Microinverters



LS1400™ Series Microinverters

LeadSolar The LS1400™ series microinverters optimizes commercial solar PV projects by delivering increased energy harvest, while offering maximum flexibility in panel deployment. With its all-AC approach, integrated grounding, contained bus cable, and ability to support 60, 72 or 96 cell modules on 30A branch circuits, the LS1400™ simplifies both design and installation. Coupled with the Digi™ communication Gateway and the LinkView™ monitoring software, LS1400™ forms the backbone of a complete 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
- Cost effective quad design and installation

() Versatility

- Supports most 60, 72 or 96 cell panels
- Available in 240V, 208V, or 277V
- 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 and Rule21 compliant
- AC branch circuits will not support arc faults















INPUT DATA (DC)	LS1400-240-Z	LS1400-208-Z	LS1400-277-Z
Recommended module power (STC)	230 – 400 W		
Module compatibility	four 60 or 72 cell panels ¹		
Maximum input voltage	60V		
MPPT voltage range (Full Power)	32 - 45V		
Operating voltage range	22 - 55V		
Number of MPPT	4		
Maximum DC short circuit current	60A (15 A per MPPT)		
Maximum input current	40A (10 A per MPPT)		
OUTPUT DATA (AC)	240 V	208 V	277V
Peak power	1400	1400	1400
Maximum continous output power	1200-1400W	1200-1400W	1200-1400W
Maximum continuous output current	5.00 - 5.83A	5.77 - 6.73A	4.33 - 5.05A
Nominal voltage	240V	208V	277V
Nominal operating voltage range ²	212 - 264V	184 -228V	244 -305V
Nominal operating frequency	60Hz		
Nominal operating frequency range ²	59.3 - 60.5 Hz		
Maximum units per 30A branch circuit	4		
Power factor	>.99 (±0.8 adjustable)		
Maximum output overcurrent protection (AC)	15A		
EFFICIENCY			
Peak inverter efficiency	95.00%		
CEC weighted efficiency	94.50%		
Static MPPT efficiency	99.90%		
Power factor	>.95		
Total harmonic distortion	< 3%		
MECHANICAL DATA			
Operating ambient temp range	-25℃ to 60℃ (-13°F to 140°F)		
Dimensions (W x H x D) ³	32.2 cm x 27.8 cm x 6.1 cm (12.7 in x 10.9 in x 2.4 in)		
Weight	7.5 Kg (16.5 lbs)		
Cooling	Convection (no fan required)		
Enclosure environmental rating	NEMA 6		
OTHER FEATURES			
Communication	Zigbee	Zigbee	Zigbee
	3	oports Ethernet/WiFi connec	
Monitoring		cellular	
Protect function	Overload, short circuit, over/under voltage, over temperature		
	Meets NEC 690.35 - Ground Fault Protection internal to		
Integrated grounding	microinverter		
Compliance		727, 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		
	14171, 0.1-01 and 10	7.1 01, G05/G57, ND1 3200	•

- 1. 96 cell version also available
- 2. Can be extended to conform to non-standard utility requirements
- 3. Excluding mounting bracket, 12.8"(32.5cm) with bracket

LeadSolar Energy, Inc.



