

MICRO INVERTER FOR SOLAR AND BATTERIES



Overview

Legion Solar LS-260I Gen4 micro-inverter is designed specifically for the Legion Solar photo-voltaic panels and BatteryCommander™ to achieve ideal system match for high efficiency DC to AC conversion. Up to 32 micro-inverters can be connected in a single chain and coupled with the bluetooth connected Solar Regulator™ for smartphone monitoring. Our micro-inverters employ maximum power point tracking (MPPT) technology to achieve maximum power output in full sun and partial shade conditions. LegionConnex™ wiring simplifies connectivity ideally suited for the do-it-yourself installer.

Parameter	LS-260IG4-120VAC	LS-260IG4-230VAC
Maximum output power	300W	
Output voltage range	80 - 160VAC	180 - 280VAC
Output frequency	58 - 62Hz	48 - 62Hz
PV input voltage range	17 - 47V	
Waterproof	IP67	
Technology	Maximum Power Point Tracking (MPPT)	
Safety	Anti-islanding, over current, reverse polarity, thermal	



Wide PV voltage range with maximum power point tracking



Easy wiring with LegionConnex™



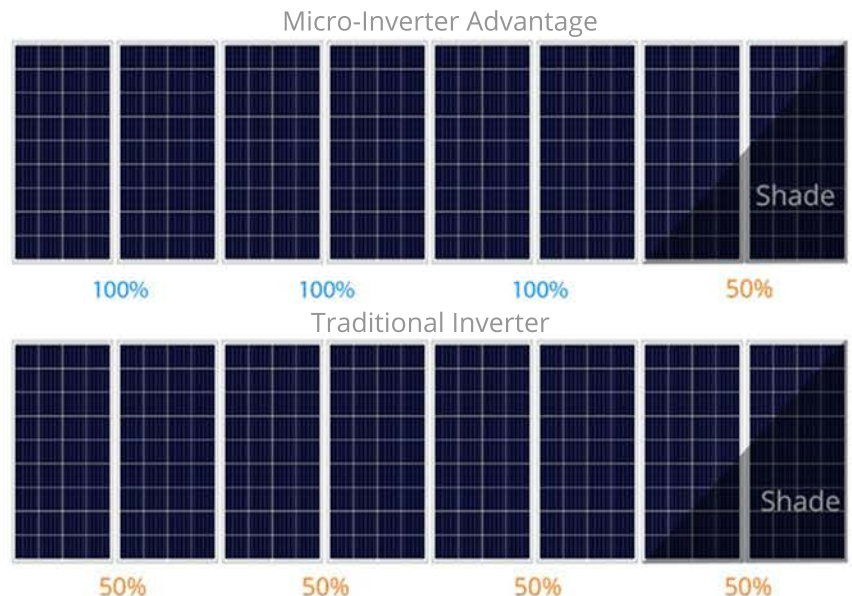
Solid-state design runs cooler more efficiently without fans.



10 year limited warranty

Maximum Energy Production

Our micro-inverters outperform that of traditional central inverters also known as string inverters due to no single point of failure. Each inverter cell works independently of each other to maximize energy production in partial cloud or shady conditions.



DC Electrical Performance

Parameter	LS-260IG4-120VAC/230VAC
PV maximum input power	300 Watts
PV input voltage range	17 - 47V
PV peak power tracking voltage	20 - 47V
Maximum DC short circuit	15A
Maximum input current	10.4A

AC Electrical Performance

Parameter	LS-260IG4-120VAC	LS-260IG4-230VAC
Optimal output power	260W	
Maximum output current	2.72A	1.36A
Maximum efficiency	94%	95.5%
Output voltage range	80 - 160VAC	180 - 260VAC
Output frequency	58 - 62Hz	48 - 62Hz
Night time power	< 50mW	
Maximum units per 20A branch	8	16
Power factor	> 98%	
THD	< 5%	
Technology	Solid state MPPT 99.5%	
Peak power tracking voltage	20 - 47V	

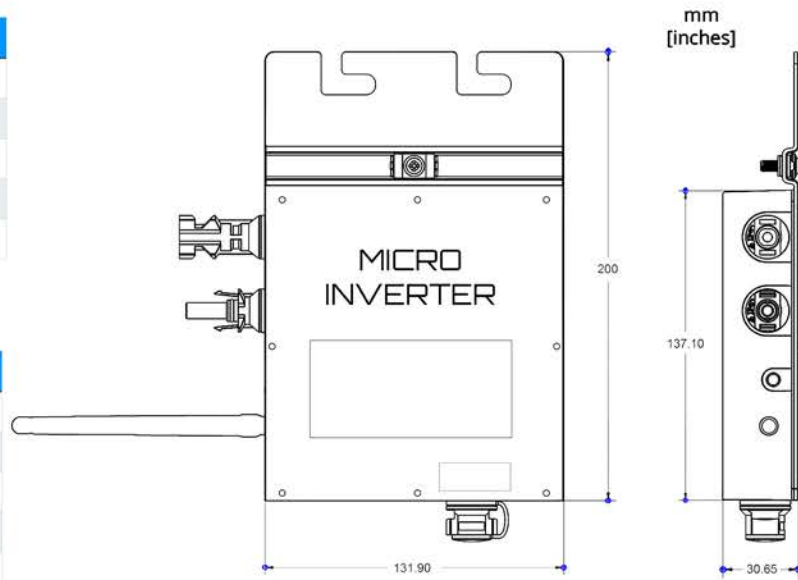
Physical Characteristics

Parameter	LS-260IG4-120VAC/230VAC
Dimensions	7.87 x 5.12 x 1.26 inches (200 x 130 x 32 mm)
Operating temperature	-40°C to 80°C
Construction	Steel/Aluminum
Waterproof	IP67
Weight	0.37 LBS (0.17Kg)
DC connector type	MC4
Cooling	Natural convection via enclosure heatsink. No fans.

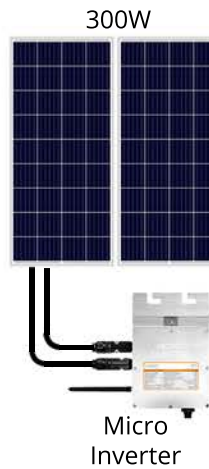
Features

Parameter	LS-260IG4-120VAC/230VAC
Compatibility	Two 150W Legion Solar PV Panels (LS-150M x2), BatteryCommander™ V1.0, BatteryCommander™ V2.0
Monitoring	Bluetooth Connected SolarRegulator™ Legion Solar App
Communication	Wireless 2.4 GHz
Ground	Integrated
Wiring	Easy installation with LegionConnex™ cable

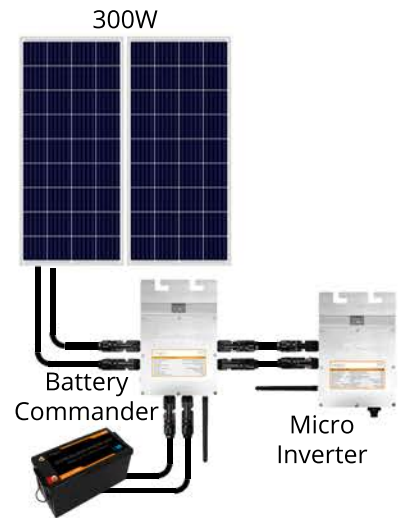
Module Dimensions



Solar Only



Solar and Battery



Monitoring

Solar Regulator™ connected with the micro-inverters communicates via bluetooth to send/receive data from your Apple/Android device enabling you to monitor your energy production-consumption, system health, performance, sunlight conditions and much more.



*This datasheet is subject to change without prior notice.

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SOLAR

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