



The Enphase Energy Microinverter System improves energy harvest, increases reliability, and dramatically simplifies design, installation and management of solar power systems. The Enphase System includes the microinverter, the Envoy Communications Gateway, and the web-based Enlighten monitoring and analysis website.

- PRODUCTIVE** [ - Maximum energy production  
- Resilient to dust, debris and shading  
- Performance monitoring per module
- RELIABLE** [ - System availability greater than 99.8%  
- No single point of system failure
- SMART** [ - Quick & simple design, installation and management  
- 24/7 monitoring and analysis
- SAFE** [ - Low voltage DC  
- Reduced fire risk

# MICROINVERTER TECHNICAL DATA

## 60 and 72 Cell Modules

The D380 "TwinPack" microinverters contain 2 independent DC inputs. The Input Data (DC) values below apply to both DC Inputs A and B individually

### Input Data (DC)

D380-72-2LL-S12/3 and D380-72-2LL-S12/3-NA

Recommended input power (STC)	230W
Maximum input DC voltage	56V
Peak power tracking voltage	22V – 40V
Min./Max. start voltage	28V/54V
Max. DC short circuit current	12A
Max. input current	10A

### Output Data (AC)

@208 Vac

@240 Vac

Maximum output power	380W	380W
Nominal output current	1.8A	1.6A
Nominal voltage/range	208V/183V-229V	240V/211V-264V
Extended voltage/range	208V/179V-232V	240V/206V-269V
Nominal frequency/range	60.0/59.3-60.5	60.0/59.3-60.5
Extended frequency/range	60.0/59.2-60.6	60.0/59.2-60.6
Power factor	>0.95	>0.95
Maximum units per 20A branch	15	10

### Efficiency

Peak inverter efficiency	95.5%
CEC weighted efficiency	95.0%
Nominal MPP tracking	99.6%

### Mechanical Data

Operating temperature range	-40°C to +65°C
Night time power consumption	50mW
Dimensions (WxHxD)	12.25" x 6.00" x 1.33"
Weight	6.25 lbs
Cooling	Natural Convection – No Fans
Enclosure environmental rating	Outdoor – NEMA 6

### Features

Communication	Powerline
Warranty	15 Years
Compliance	UL1741/IEEE1547, FCC Part 15 Class B

## Enphase Energy, Inc.

201 1<sup>st</sup> Street, Suite 300, Petaluma, CA 94952  
 877 797 4743 [enphaseenergy.com](http://enphaseenergy.com)  
 142-00007 REV 05



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[www.StrathconaSolar.com](http://www.StrathconaSolar.com)

613-354-6333