



## ENPHASE MICROINVERTER

D380



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

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