



Enecsys Micro Inverters

SMI-D480W-60-UL



Maximized Energy Harvest

Improved Safety

Increased Lifetime & Reliability

Enhanced Monitoring Capability

Simplified PV Array Design & Installation

Enecsys develops, manufactures and markets world leading, highly reliable grid-connected solar micro inverters and monitoring systems that offer an outstanding value proposition for solar PV systems.

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Technical Specification

SMI-D480W-60-UL

Input Data (DC)

Nominal Input Power	480W
Recommended Input Power (STC)	500W
Maximum DC Voltage	44V
Minimum DC Voltage	20V
MPPT Voltage Range	24V - 35V
Min/Max Start-up Voltage	22V / 42.5V
Maximum Input Current	22A
Maximum Input Short-circuit Current	32A

Output Data (AC)

Maximum AC Output Power	450W
Nominal AC Output Current	1.88A
Nominal Output Voltage	240V
Nominal Frequency	60Hz
Power Factor	> 0.95
Total Harmonic Distortion	< 5%
Maximum Recommended Units Per 20A Branch Circuit	8 (single phase)
Maximum Fault Current	10.8A AC 3ms

Efficiency

CEC Efficiency	94.5%
Peak Efficiency	96.0%
Maximum Night Power Consumption	< 30mW

Mechanical Data

Ambient Temperature Range	-40°C to 85°C
Enclosure Rating	UL 50 Type 4X
Dimensions (LxHxW)	262mm x 160mm x 40mm*1
Weight	2.1kg
Cooling	Natural Convection

Features & Compliance

Safety Class Compliance	UL1741, CSA-C22.2.107.1-01
EMC (Emission & Immunity) Compliance	FCC Part 15 Class B
Grid Connection Compliance	IEEE 1547.1*2
Communication	ZigBee IEEE 802.15.4
Connector	MC4 Compatible
PV Compatibility	Compatible with most 60 cell modules
Warranty	20 Years (at full ambient temperature range)

*1 - Without the mounting bracket

*2 - In accordance with the Enecsys installation guidelines (please refer to the Enecsys Installation Manual)

All technical specifications contained within this document are subject to change without prior notice.