



Enecsys Micro Inverters

SMI-D480W-60



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-(see "ordering information" for region code)

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
Maximum Input Current	22A

Output Data (AC)	
Maximum AC Output Power	450W
Nominal AC Output Current	1.96A
Nominal Output Voltage	230V
Nominal Frequency	50Hz
Power Factor	> 0.95
Total Harmonic Distortion	< 5%

Efficiency	
Euro Efficiency	93.5%*1
Peak Efficiency	95%
Maximum Night Power Consumption	< 30mW

Mechanical Data	
Operating Temperature Range	-40°C to 85°C
Enclosure Rating	IP66
Dimensions (LxHxW)	262mm x 160mm x 40mm*2
Weight	2.1kg
Cooling	Natural Convection

Features & Compliance	
Safety Class Compliance	CE, pr EN 62109-1, AS/NZS 3100
EMC (Emission & Immunity) Compliance	EN61000-6-3, EN61000-6-1
Grid Connection Compliance	G83/ 1-1, VDE 0126-1, VDE 4105, IEC 61727, IEC 62116, AS 4777, RD 1699*3
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)
Technology	Thin film capacitors
Isolation	Galvanic

Ordering Information

Region code	Region
-AU	Australia
-ES	Spain
-DE	Germany
-FR	France
-IT	Italy
-UK	United Kingdom

*1 - Efficiency maintained over full ambient temperature range from -40°C to 85°C and at nominal output power
 *2 - Without the mounting bracket
 *3 - 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