



## Enecsys Micro Inverters

SMI-D480W-60



**Maximized Energy Harvest**

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**Improved Safety**

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**Increased Lifetime & Reliability**

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**Enhanced Monitoring Capability**

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**Simplified PV Array Design & Installation**

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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