

ENECSYS SMI-S240W-60

Technical Specification

SMI-S240W-60

Input Data (DC)	
Nominal Input Power	240W
Recommended Input Power (STC)	260W
Maximum DC Voltage	44V
Minimum DC Voltage	20V
MPPT Voltage Range	23V - 35V
Min/Max Start-up Voltage	22V / 42.5V
Maximum Input Current	12A
Maximum Input Short-circuit Current	16A
Output Data (AC)	
Maximum AC Output Power	225W
Nominal AC Output Current	0.98A
Nominal Output Voltage	230V
Nominal Frequency	50Hz
Power Factor	> 0.95
Total Harmonic Distortion	< 5%
Maximum Fault Current	8.5A AC 3ms
Efficiency	
Euro Efficiency	91.5%*1
Peak Efficiency	94.8%
Maximum Night Power Consumption	< 30mW
Mechanical Data	
Operating Temperature Range	-40°C to +85°C
Enclosure Rating	IP66
Dimensions (LxHxW)	262mm x 160mm x 35mm*2
Weight	1.8kg
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 01 26-1, IEC 61727, IEC 62116, AS 4777*3
Communication	Zigbee IEEE 802.15.4
Connector	MC4
PV Compatibility	Compatible with most 60 cell modules
Warranty	20 Years (at full ambient temperature range)
Technology	Thin film capacitors
Isolation	Galvanic

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.



*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

CONFIGURATIONS WITH 240Wp MODULES

	CSI CS6P-240P	JINKO JKM240P-60	LDK LDK 240P- 20	YINGLI YL 240P-29b	TRINA TSM-240-PC05
Pmax	240	240	240	240	240
Vmp	29,9	30	30	29,5	30,4
Imp	8,03	8,1	7,98	8,14	7,89
Voc	37	37,2	36,9	37,5	37,2
Isc	8,59	8,56	8,35	8,65	8,37
Efficiency	14,92	14,66	14,7	14,7	14,7
T° operating	-40°C...+85°C	-40°C...+85°C	-40°C...+85°C	-40°C...+85°C	-40°C...+85°C
Max. Voltage	1000V (IEC) / 600V (UL)	1000V (IEC) / 600V (UL)	1000V (IEC) / 600V (UL)	1000V (IEC) / 600V (UL)	1000V (IEC) / 600V (UL)
Max. Series Fuse Rating	15	15	20	15	15
Power Tolerance	0+5%	0+3%	0+3%	0+3%	0+3%
Temperature coefficients of Pmax	-0.43%/°C	-0.45%/°C	-0.47%/°C	-0.45%/°C	-0.45%/°C
Temperature coefficients of Voc	-0.34%/°C	-0.27%/°C	-0.34%/°C	-0.37%/°C	-0.35%/°C
Temperature coefficients of Isc	0.065%/°C	0.05%/°C	0.06%/°C	0.06%/°C	0.05%/°C
Nominal operating cell temperature (NOCT)	45±2°C	45±2°C	45±2°C	46±2°C	46±2°C
Dimensions	1638x982x40	1650x992x45	1642x994x40	1650x990x50	1650x992x40
Weight	20,00 kg	19,00 kg	20,00 kg	19,50 kg	19,50 kg
Cell Type	Poly 156×156mm (6 inch)	Poly 156×156mm (6 inch)	Poly 156×156mm (6 inch)	Poly 156×156mm (6 inch)	Poly 156×156mm (6 inch)
No. Of Cells	60 (6×10) 24 pcs/box 24 pcs/pallet	60 (6×10) 23 pcs/box 24 pcs/pallet	60 (6×10) 25 pcs/box 24 pcs/pallet	60 (6×10) 20 pcs/box 24 pcs/pallet	60 (6×10) 25 pcs/box 24 pcs/pallet
Packaging Configuration	672 pcs/40'HQ Container	672 pcs/40'HQ Container	672 pcs/40'HQ Container	672 pcs/40'HQ Container	672 pcs/40'HQ Container
Conectores	MCIV	MCIV	MCIV	MCIV	MCIV
Product Warranty	10	10	10	10	10
Power Warranty	Linear: 97% 1st year 0,7%/per year, 24 years	90% 12 years 80% 25 years	90% 12 years 80% 25 years	91,2% 10 years 80,70% 25 years	Linear: 97% 1st year 0,7%/per year, 24 years

