

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module Type	OneSolar One + Series					
	P_{max}		235	240	245	250
Power output	P_{max}		235	240	245	250
Power output tolerances	ΔP_{max}	%	0 / +5			
Module efficiency	η_m	%	14.17	14.47	15.09	16.40
Voltage at P_{max}	V_{mpp}	V	30.36	30.60	30.85	32.02
Current at P_{max}	I_{mpp}	A	7.58	7.68	7.94	9.06
Open circuit voltage	V_{oc}	V	36.42	36.54	36.91	37.99
Short circuit current	I_{sc}	A	8.11	8.22	8.50	9.62

STC: 1000W/M² IRRADIANCE, 25 °C CELL TEMPERATURE, AM1.5G SPECTRUM ACCORDING TO EN 60904-3. AVERAGE RELATIVE EFFICIENCY REDUCTION OF 5% AT 200W/M² ACCORDING TO EN 60904-1.



One Wwarranty Coverage

COVERED BY ONESOLAR'S COMPREHENSIVE 12 YEAR WARRANTY PROGRAM.

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	47 +/-2
Temperature coefficient of P_{max}	γ	% / °C	-0.45
Temperature coefficient of V_{oc}	β_{Voc}	% / °C	-0.33
Temperature coefficient of I_{sc}	α_{Isc}	% / °C	+0.04
Temperature coefficient of V_{mpp}	β_{Vmpp}	% / °C	-0.35

NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

OPERATING CONDITIONS

Max. System Voltage	1000VDC
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow and wind)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

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YEAR WARRANTY PROGRAM.

12
YEARS

MANUFACTURER
WARRANTY

30
YEARS

PERFORMANCE
WARRANTY



OneSolar[®]



MECHANICAL CHARACTERISTICS

Front Cover (material / thickness)	low-iron tempered glass / 3.2mm
Cell (quantity / material / dimensions)	60 / multicrystalline silicon / 6" x 6"
Encapsulant (material)	EVA
Frame material	anodized aluminum alloy
Junction box (protection degree)	≥ IP65 with 6 bypass-diodes
Cable (length / cross sectional area)	900mm / 4mm ²
Plug connector (type / protection degree)	MC4 / IP67
Fire Safety Classification (IEC 61730)	Class C

Specifications are subject to change without notice.

GENERAL CHARACTERISTICS

Dimensions	1640mm / 990mm / 40mm
Weight	18.6kg