somera SERIES 6

Monocrystalline Solar PV Modules, Monofacial, MBB, M6 Half-Cell, SOMERA VSMH.60.AAA.03.04

POWER OUTPUT WATT

MAXIMUM EFFICIENCY %

POSITIVE POWER TOLERANCE WP

CELLS (HALF CUT)

345-375 20.22

0~+4.99

M6 120





TECHNICAL DATA SOMERA SERIES 6 120CELLS - MBB

THIS DATASHEET IS APPLICABLE FOR: SOMERA VSMH.60.AAA.03.04 (AAA=345-375)

Electrical Data^{1,2} All data refers to STC (AM 1.5, 1000 W/m², 25°C)

Peak Power P _{max} (Wp) (0 ~ +4.99Wp)	345	350	355	360	365	370	375
Maximum Voltage V _{mpp} (V)	34.6	34.6	34.7	34.7	34.8	34.9	34.9
Maximum Current I _{mpp} (A)	10.01	10.13	10.27	10.41	10.53	10.65	10.75
Open Circuit Voltage V _{oc} (V)	40.7	40.8	40.8	40.9	41	41.1	41.1
Short Circuit Current I _{sc} (A)	11.01	11.13	11.25	11.35	11.45	11.55	11.65
Module Efficiency η(%)	18.61	18.88	19.14	19.41	19.68	19.95	20.22

1) STC:1000 W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3. | 2) Power measurement uncertainty is within +/- 3%.

Electrical Parameters at NOCT³

Power (W)	255.3	259.0	262.7	266.4	270.1	273.8	277.5
V@P _{max} (V)	32.0	32.0	32.1	32.1	32.2	32.2	32.2
I@P _{max} (A)	8.01	8.10	8.22	8.33	8.42	8.52	8.60
V _{oc} (V)	38.0	38.1	38.1	38.2	38.3	38.4	38.4
I _{sc} (A)	10.03	10.14	10.25	10.34	10.43	10.52	10.61

3] NOCT irradiance 800 W/m², ambient temperature 20°C, wind speed 1 m/sec

Temperature Coefficients (Tc) permissible operating conditions

Tc of Open Circuit Voltage (β)	-0.27%/°C
Tc of Short Circuit Current (α)	0.065%/°C
Tc of Power (γ)	-0.35%/°C
Maximum System Voltage	1000V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

Mechanical Data

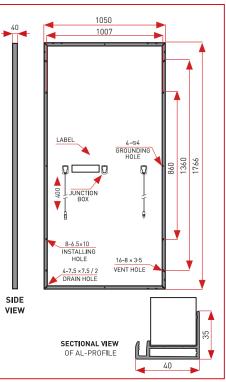
Length × Width × Height	1 <mark>7</mark> 66 × 1050 × 40mm (69.52 × 41.33 × 1.57 inches)		
Weight	2 <mark>0</mark> .8 Kg (45.8 lbs)		
Junction Box	IP68/IP67, Split Junction Box with individual bypass diodes		
Cable & Connectors#	400 mm length cables,MC4 Compatible/MC4 Connectors		
Application Class	Class A (Safety class II)		
Superstrate	3.2 mm (0.125 inches) high transmission low iron tempered glass, AR coated		
Cells	60 Mono PERC (120 half-cells) solar cells		
Back Sheet	Composite film		
Frame	Anodized aluminium frame with twin wall profile		
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)		
Maximum Series Fuse Rating	20 A		

Warranty and Certifications

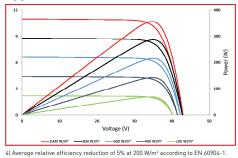
Product Warranty**	10 years
	Linear Power Warranty for 27 years with 3% for 1st year degradation and 0.65% from year 2 to year 27
	IEC 61215 : 2016, IEC 61730 : 2016, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804, CE, CEC (California), UL 1703

^ All (^) certifications under progress. | ** Refer to Vikram Solar's warranty document for terms and conditions. | # 1200mm (47.24 inches) cable length is also available

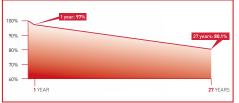
Dimensions in mm



Typical I-V Curves⁴



Performance Warranty



Packaging Information

Quantity /Pallet	27
Pallets/Container (40'HC)	26
Quantity/Container (40'HC)	702

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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