

ELECTRICAL DATA - ALL DATA REFERS TO STC (AM 1.5 G, 1000 W/m², 25°C)

Type	EV-275	EV-280	EV-285	EV-290	EV-295	EV-300
Rated Peak Power (Wp)	275	280	285	290	295	300
Nominal Voltage Vmpp (V)	35.72	35.86	36.03	36.16	36.39	36.55
Nominal Current Imp (A)	7.70	7.81	7.92	8.02	8.11	8.21
Open Circuit Voltage Voc (V)	44.00	44.15	44.32	44.46	44.68	44.82
Short Circuit Current Isc (A)	8.20	8.31	8.41	8.52	8.58	8.63

Tolerance of Electrical Parameter : All Electrical parameter $\pm 3\%$

MECHANICAL SPECIFICATION :

Length	1955 mm
Width	983 mm
Height	35 mm
Weight	22 kg
Junction Box	IP65, 4 Terminal Insertaion type with 3 bypass diodes (15A)
Cable & Connectors	4mm ² , TUV & UL Certified, 1000 mm
Application Class	CLASS A (Safety class II)
Front Cover	High Transmission, Low Iron, 3.2mm Tempered ARC Glass
Cells	3BB, 156x156mm, 72 no's pcs Poly-Crystallin Solar Cells
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Cover	Composite Film
Frame	Anodize aluminium frame with twin wall profile
Maximum Surface Load Capacity	According to IEC 61215, snow load 5400 pa or 550 kg/m & Wind load 2400 pa

TEMPERATURE COEFFICIENTS (TC) AND PERMISSION OPERATING CONDITIONS

Tc of Open Circuit Voltage (β)	$-0.35 \pm 0.01\% / ^\circ\text{C}$
Tc of Short Circuit Current (α)	$0.05 \pm 0.02\% / ^\circ\text{C}$
Tc of Power (γ)	$-0.44 \pm 0.02\% / ^\circ\text{C}$
Maximum System Voltage	1000 V(TUV), 600V(UL)
NOCT	$45 ^\circ\text{C} \pm 2 ^\circ\text{C}$
Temperature Range	$-40 ^\circ\text{C}$ to $85 ^\circ\text{C}$
Efficiency Reduction at 200W/m ² , 25°C	< 5%
Maximum Reserve Current (A)	12.5
Resistance against hail	Maximum diameter of 24 mm with impact speed 83 km/h

GURANTEES AND CERTIFICATIONS :

Product Warranty	5 Years
Performance Guaranteed	Guarantee Power Output of 90% for 10 yrs and 80% for 25 Yrs
Approvals and Certificates	TUV : IEC 61215 Ed.2, IEC 61730, IEC 61701 MNRE
Packing	2 in 1 type in corrugated boxes 20 Ft. Container - 206 Pcs.

250W to 300W For Offgrid and on Grid Ground & Roof Mounted Projects.

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