

CERTIFICATES



IEC - 61730/61215



IEC - 61701



ISO : 9001:2008



MNRE - Solar Module



MNRE - Channel Partner



MNRE - Lantern



MNRE - Home Lighting System



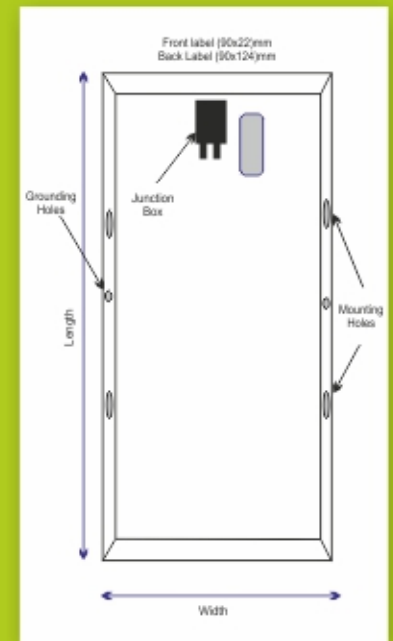
NABL Accredited Laboratory - Street Light



NABL Accredited Laboratory - Lantern

SOLAR MODULE SPECIFICATION

ALL ELECTRICAL DATA REFERS TO STC (AM 1.5 G, 1000 W/m ² , 25°C)							
Type	TSE-37	TSE-40	TSE-50	TSE-60	TSE-75	TSE-80	TSP-100
Rated Peak Power (Wp)	37	40	50	60	75	80	100
Nominal voltage V _{mpp} (V)	17.00	17.10	17.30	18.00	17.10	17.20	17.50
Nominal current I _{mpp} (A)	2.20	2.35	2.90	3.35	4.40	4.70	5.75
Open circuit voltage V _{oc} (V)	21.80	21.90	21.95	22.00	21.90	21.90	21.90
Short circuit current I _{sc} (A)	2.40	2.45	3.20	3.45	4.83	4.90	6.00
Tolerance of Electrical parameters: All electrical parameters ±3%							
MECHANICAL SPECIFICATION:							
Length (mm)	523	668	708	915	1095		
Width (mm)	666 mm						
Height (mm)	35 ± 1.5 mm						
Weight (Kgs)	4.25	5.2	5.5	6.9	8.25		
Junction Box	IP65, 3 Terminal Insertion type with 2 bypass diodes						
Application class	CLASS A (Safety class II)						
Front cover	High Transmission, Low Iron, Tempered Glass						
Cells	288,36 no's pcs Poly -crystalline solar cells						
Cell encapsulation	EVA (Ethylene Vinyl Acetate)						
Back cover	Composite film						
Frame	≥ 17μ Anodized thickness aluminium frame with twin wall profile						



TEMPERATURE COEFFICIENTS (TC) AND PERMISSIBLE OPERATING CONDITIONS

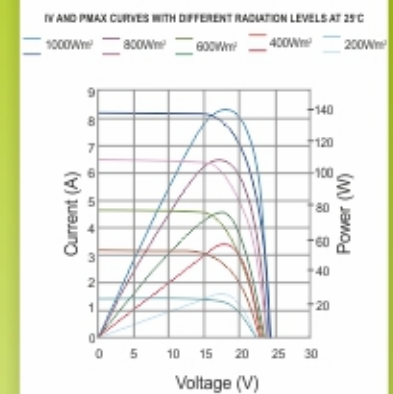
Tc of Open circuit voltage (β)	-0.35 ± 0.01 % / °C
Tc of short circuit current(a)	0.05 ± 0.02% / °C
Tc of Power(Y)	-0.44 ± 0.02% / °C
Maximum system voltage	1000 V(TUV)
NOCT	45 °C ± 2 °C
Temperature range	- 40 °C to + 85 °C

NOCT-800 W/M², AMBIENT TEMPRETURE 20°C,WIND SPEED 1M/SEC)

GURANTEES AND CERTIFICATIONS:

Product Warranty	5 Years
Performance Gurantee	Guaranteed power Output of 90% for 10 Years and 80% for 25 Years
Approvals and certificates	TUV: IEC 61215 Ed.2, IEC 61730 ,IEC 61701, MNRE

IV Curve



Subject to errors and technical modifications within the scope of product improvement.