

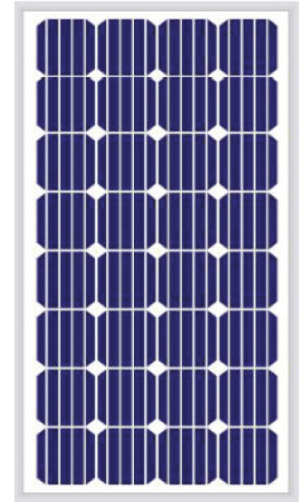
TECHNICAL DATA

Electrical Data : All Data refers to STC (1000W/m², AM1.5G, 25°C)

Model Name	LFV12V165M
Peak Power Pmax (Wp)	165
Maximum Voltage Vmp (V)	17.65
Maximum Current Imp (A)	9.42
Open Circuit Voltage Voc (V)	21.82
Short Circuit Current Isc (A)	9.80
Max Rated Current Series (Fuse Rating)	15 A
Module Efficiency (%)	18.55
No. of Solar Cells per Module	32

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



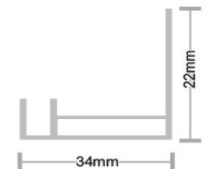
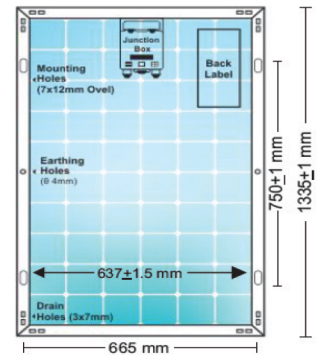
ELECTRICAL PARAMETERS AT NOCT

Maximum Power Pmax (Wp)	123.00
Maximum Power voltage V@Pmax (V)	16.05
Maximum Power Current I@Pmax (A)	7.84
Open Circuit Voltage Voc (V)	20.12
Short Circuit current Isc(A)	8.05

NOCT Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

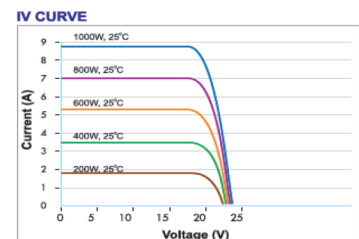
PERMISSIBLE OPERATING CONDITIONS

Tc of Open Circuit Voltage (β)	-0.28%/°C ± 0.02
Tc of Short Circuit Voltage (α)	0.048%/°C ± 0.01
Tc of Power (γ)	-0.38%/°C ± 0.02
NOCT	45 ± 2°C
Temperature Range	-40°C to +85 °C
Maximum System Voltage	1000 VDC
Max Reverse Current	15 A



MECHANICAL DATA

Length x Width x Height (in mm)	1335mm x 665mm x 35mm
Junction Box	IP 65 rated with bypass diodes
Application Class	Class A (Safety Class II)
Substrate (Glass)	High transmission low iron tempered glass
Solar Cells & Orientation	(8x4 matrix) Mono Perc Solar Cells
Cells Encapsulant	EVA (Ethylene Vinyl Acetate) - FC/UFC
Back Sheet	Composite film - White
Frame	Silver Anodized aluminum frame with twin wall profile
Mechanical Load Test	Sustain Heavey wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m ²) Maximum diameter of 24 mm with hail impact of 83 Km/h



WARRANTY AND CERTIFICATION

Performance Warranty**	Linear Power Warranty for 25 years, 90% for 10 years and 80% for 25 years
Approvals and Certificates	Products : Complied to BIS, IEC 61215:2005 - Ed 2 , IEC 61730 - Ed1 & Ed2, IEC 61701, IEC 62804, MNRE, UL,CE, IS:14286

** Refer warranty documents for terms and conditions.

**Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your requirement with the company representative while placing your order.