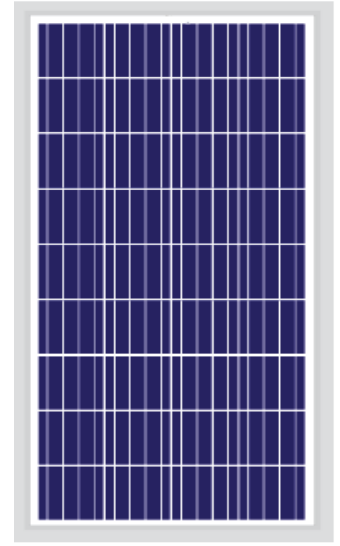


TECHNICAL DATA

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

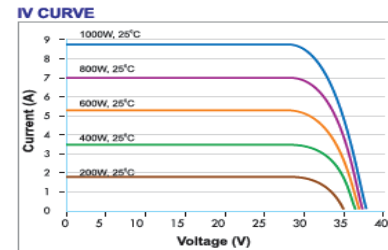
Model Name	LFV12V40	LFV12V50	LFV12V75	LFV12V100	LFV12V160
Peak Power Pmax (Wp)	40	50	75	100	160
Maximum Voltage Vmp (V)	17.50	18.00	18.00	18.00	18.20
Maximum Current Imp (A)	2.46	2.78	4.17	5.66	8.79
Open Circuit Voltage Voc (V)	21.00	22.00	22.00	22.00	22.20
Short Circuit Current Isc (A)	2.54	3.28	4.67	6.06	9.34
Maximum System Voltage	600 VDC	600 VDC	600 VDC	600 VDC	1000 VDC
Max Rated Current Series (Fuse Rating)	6A	6A	6A	10A	15A
Solar Cell Size (in mm)	39x156.75	52x156.75	78x156.75	99x156.75	156.75x156.75
No. of Solar Cells per module	36	36	36	36	36



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

PERMISSIBLE OPERATING CONDITIONS

Tc of Open Circuit Voltage (β)	-0.31%/°C ± 0.02
Tc of Short Circuit Voltage (α)	0.057%/°C ± 0.01
Tc of Power (γ)	-0.41%/°C ± 0.02
NOCT	45 ± 2°C
Temperature Range	-40°C to +85 °C
Limiting Reverse Current (Ir)	15 A



MECHANICAL DATA

Junction Box	IP 65 rated with bypass diodes
Application Class	Class A (Safety Class II)
Substrate (Glass)	High transmission low iron tempered glass
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 Heavy 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 : IEC 61215:2005 - Ed 2 , IEC 61730 - Ed1 & Ed2, IEC 61701, IEC 62804, MNRE, UL,CE, IS:14286, IS-61215, IS-61730

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TECHNICAL DATA

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

Model Name	LFV24V325
Peak Power Pmax (Wp)	325
Maximum Voltage Vmp (V)	37.80
Maximum Current Imp (A)	8.60
Open Circuit Voltage Voc (V)	46.20
Short Circuit Current Isc (A)	9.13
Module Efficiency (%)	16.81
No. of Solar Cells per Module	72

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)	238.30
Maximum Power voltage V@Pmax (V)	34.60
Maximum Power Current I@Pmax (A)	6.88
Open Circuit Voltage Voc (V)	42.70
Short Circuit current Isc(A)	7.38

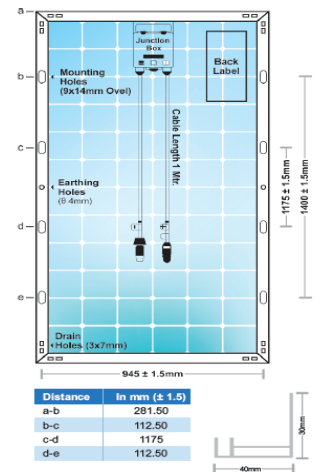
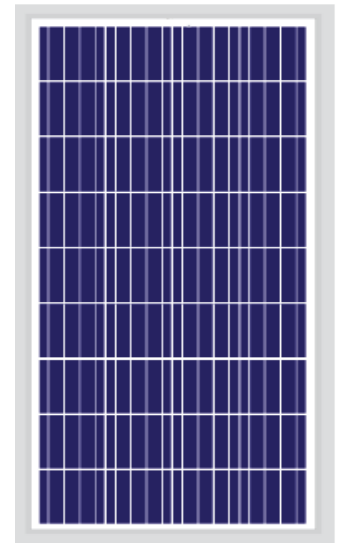
NOCT Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

PERMISSIBLE OPERATING CONDITIONS

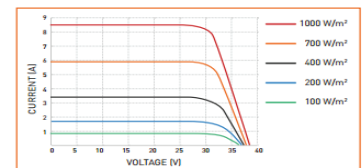
Tc of Open Circuit Voltage (β)	-0.31%/°C ± 0.02
Tc of Short Circuit Voltage (α)	0.052%/°C ± 0.01
Tc of Power (γ)	-0.40%/°C ± 0.02
NOCT	45 ± 2°C
Maximum Series Fuse Ratings	20 A
Temperature Range	-40°C to +85 °C
Maximum System Voltage	1000 VDC

MECHANICAL DATA

Length x Width x Height (in mm)	1963mm x 985mm x 40mm (± 1.5 mm)
Weight	21.50Kg
Junction Box	IP 67/IP 68 rated with 3 bypass diodes
Cable & Connectors	4 sqm (12AWG) solar cable 1000 mm x 2 nos. black MC4/ MC4 compatible connectors
Application Class	Class A (Safety Class II)
Substrate (Glass)	High transmission low iron tempered glass AR coated
Solar Cells & Orientation	72 Nos. (12 x 6) polycrystalline 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 Heavy wind & snow loads (2400 Pa & 5400 Pa or 550 Kg/m ²) Maximum diameter of 24 mm with hail impact of 83 Km/h



IV Curves



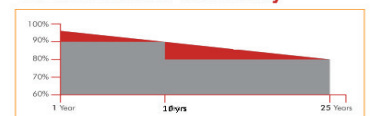
WARRANTY AND CERTIFICATION

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

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Performance Warranty



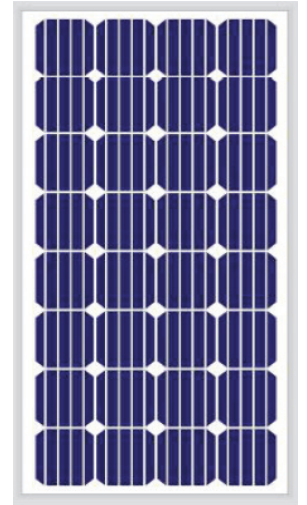
TECHNICAL DATA

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



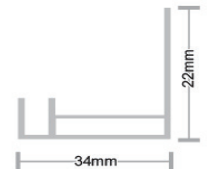
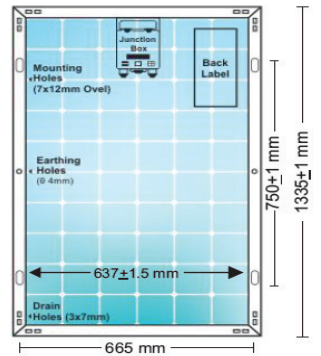
ELECTRICAL PARAMETERS AT NOCT

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

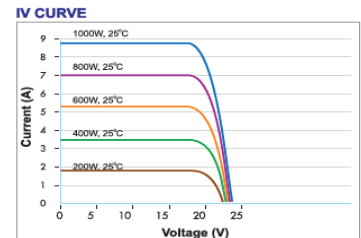
PERMISSIBLE OPERATING CONDITIONS

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 ± 0.03
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 : IEC 61215:2005 - Ed 2 , IEC 61730 - Ed1 & Ed2, IEC 61701, IEC 62804, MNRE, UL,CE, IS:14286, IS-61215, IS-61730

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TECHNICAL DATA

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

Model Name	LFV24V375M
Peak Power Pmax (Wp)	375
Maximum Voltage Vmpp(V)	40.30
Maximum Current Imp(A)	9.26
Open Circuit Voltage Voc (V)	49.10
Short Circuit Current Isc (A)	9.70
Module Efficiency (%)	19.40
Nos. of Solar cell per module	72

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)	278.50
Maximum Power voltage V@Pmax(V)	37.50
Maximum Powercurrent I@Pmax(A)	7.42
Open circuit Voltage Voc (V)	45.90
Short circuit current Isc (A)	7.84

NOCT Irradiance 800W/m², Ambient Temperature 20°C, Wind speed 1 m/sec

PERMISSIBLE OPERATING CONDITIONS

Tc of Open Circuit Voltage (β)	-0.286%/°C ± 0.02
Tc of Short Circuit Voltage (α)	0.057%/°C ± 0.01
Tc of Power (γ)	-0.37%/°C ± 0.02
NOCT	45±2°C
Temperature Range	-40°C to +85 °C
Maximum System Voltage	1500 VDC
Max Reverse Current	20 A

MECHANICAL DATA

Length x Width x Height (in mm)	1970mmx990mmx40mm
Weight	22 Kg
Junction Box	IP 67/68 rated with 3 Bypass diodes
Application Class	Class A (Safety class II)
Cable and Connectors	4 sqm (12AWG) solar cable 1000mm x 2nos black MC4/MC4 compatible connectors
Substrate (Glass)	High transmission low iron tempered glass AR coated
Solar cells & Orientation	(12x6 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 : IEC 61215:2005 - Ed 2 , IEC 61730 - Ed1 & Ed2, IEC 61701, IEC 62804, MNRE, UL,CE, IS:14286, IS-61215, IS-61730

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