



## SOLAR MODULES

Polycrystalline and Monoperc



### WHY CHOOSE US

- Custom Solar Design
- Complete Design Solution and Material Under One Roof.
- Technology Assisted Solar Installation
- PAN INDIA Sales & Service
- BIS Approved Panels (IEC 612515, IEC 61730 Part 1, Part 2, SALT MIST IEC 61701 , PID IEC TS 62804 , IEC 61853-1: 2011)

**VISIT NOW**

[www.upsINVERTER.com](http://www.upsINVERTER.com)







UTL was founded in the year 1996 by 2 proficient engineers Mr Yogesh Dua and Mr Pawan Garg. UTL is one of the leading brand in power back-up and power generation in India. UTL offers wide range of quality products, has 5 manufacturing units, strong network of distributors and dealers across the globe and highly motivated workforce. We are offering excellent R&D services through the team of more than 60 R&D professionals and exporting R&D services & UL Certified products to various countries including USA. As the company values long term relationship, our stakeholders and even customers have very long association with UTL.



### Mission

UTL's mission is to develop value for money, world class products and provide excellent service to it's customers worldwide.

UTL SOLAR is Solar PV Module Manufacturer Using **Monocrystalline** and **Polycrystalline** solar cells



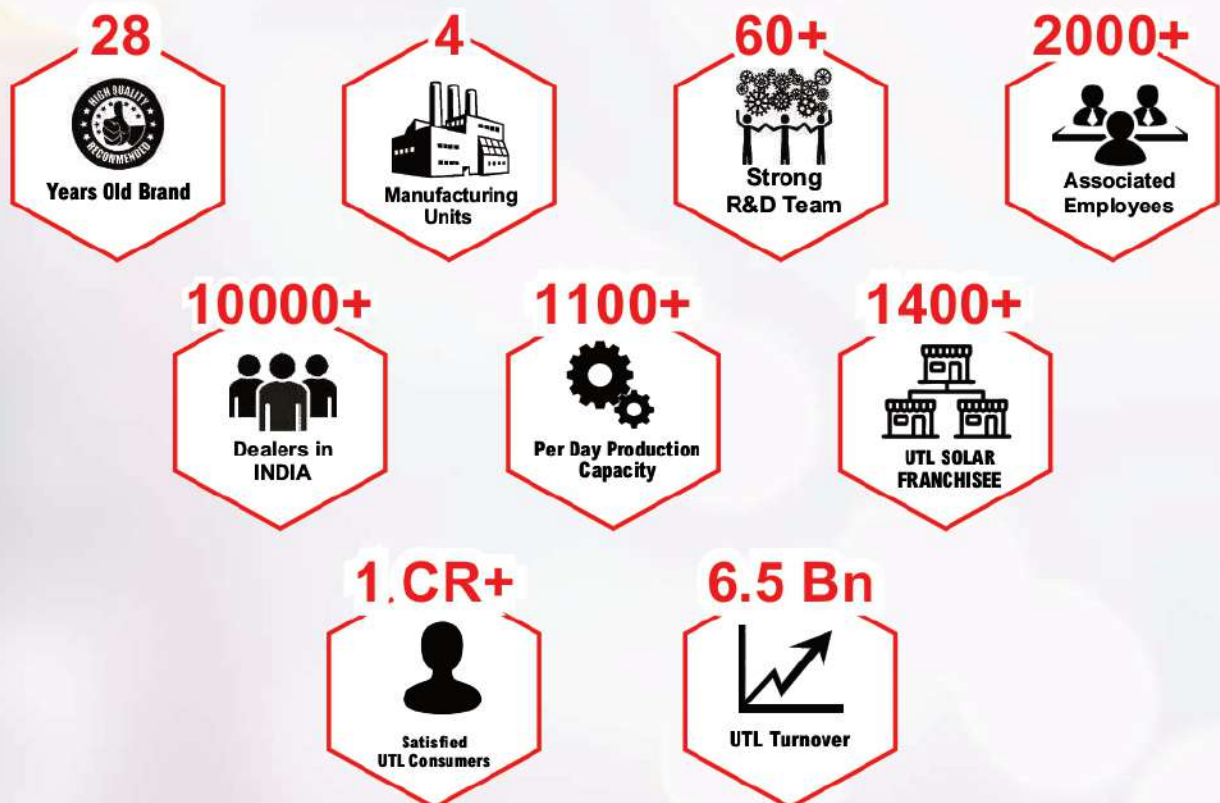
### Vision

UTL has a clear vision to double It's reach globally every second year.

## Some remarkable milestones covered by UTL are...



## UTL in 2023-2024





# Manufacturing Energetic Excellence

For-sighted investment in a state-of-the-art facility with an installed capacity of 500 MW per annum.

- ✓ Fully automatic line including auto bussing in the manufacturing facility
- ✓ Solar Cells & Other Key Materials Sourced From World Renowned Suppliers
- ✓ Manufacture Solar PV Modules From 10Wp To 600Wp Using Multi/Mono Crystalline Silicon
- ✓ World Class Lab Testing Facilities



Following Stringent Production Quality Assurance Programs

## PROJECT COMMISSIONED

**500kw Noida**



**150kw Moga**



**100kw Ludhiana**



**100kw Ludhiana**



**100kw H.P**



**80kw Delhi**





AR Coated Tempered Glass  
Anti-Reflective Module Surface



PID Resistant with  
Long Term Reliability



IP68, IP67  
for Long Term Endurance



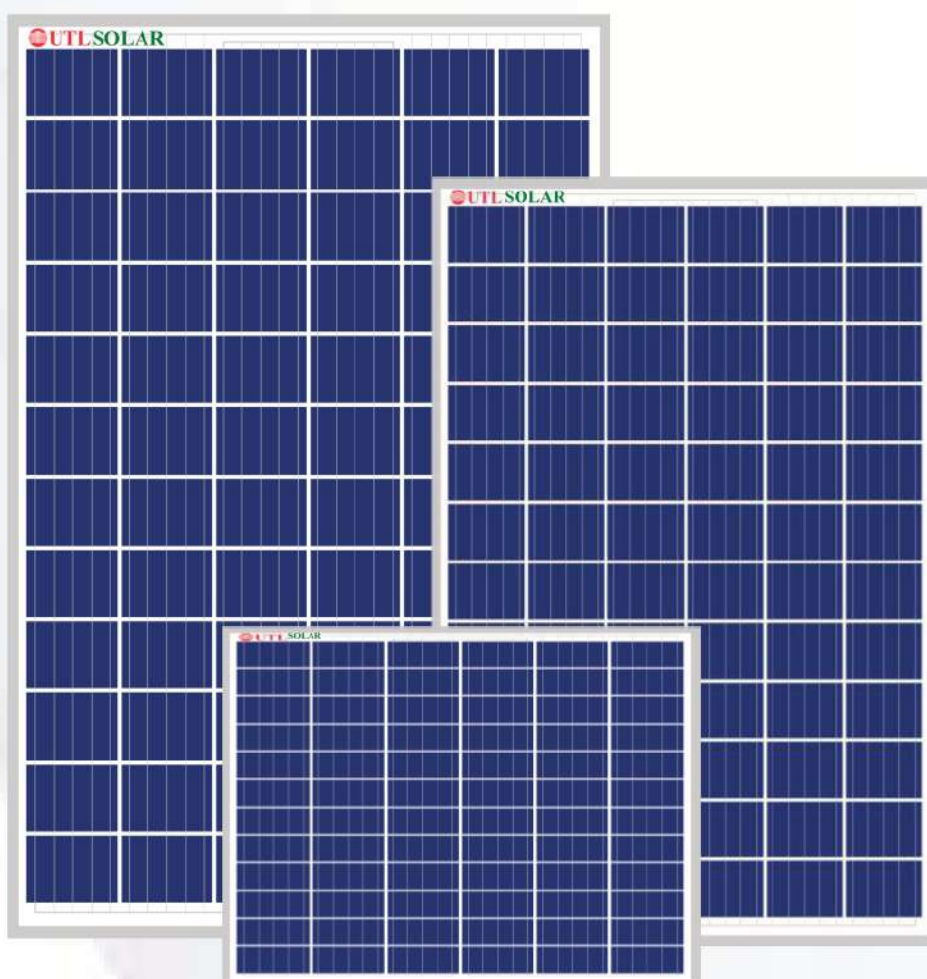
Strengthened Mechanical Support  
5400 Pa snow load, 2400 Pa  
wind load



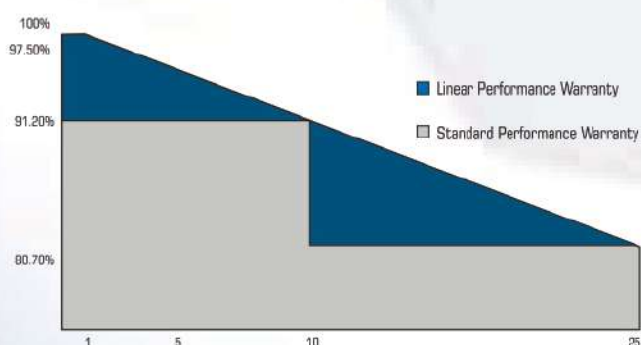
100% EL Tested  
High PTC rating



Quality and Reliability assurance  
in standard weather condition



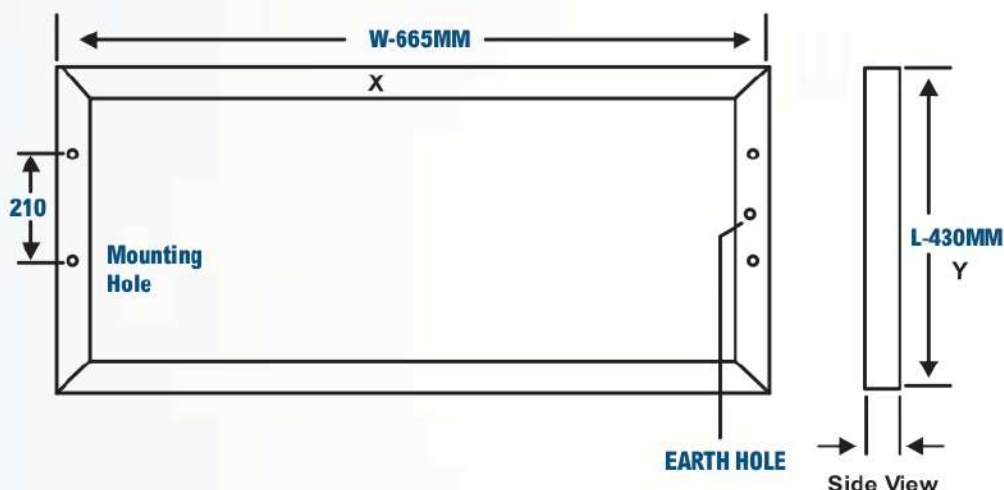
Range - 40W - 335W





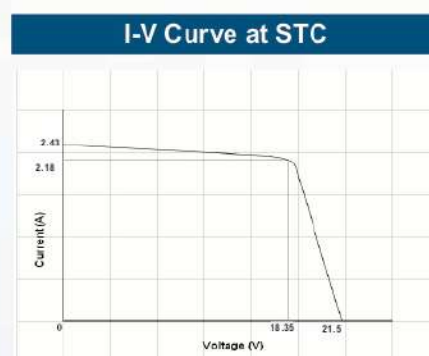
## DATA SHEET 40 WATT 12V

### Technical Specifications



Construction Features		Warranty
Type of Cell	PID Free Multi/Poly-Crystalline Si	10 Years - 90% of Power O/P
Glass	Non ARC coated, Tempered & Low Iron	15 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 67	

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	40 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	21.5
3	Short Circuit Current (Isc) in Amps	2.43
4	Voltage at Maximum Power (Vmp) in Volts	18.35
5	Current at Maximum Power (Imp) in Amps	2.18
6	Maximum System Voltage	1500
7	Solar Cells per Module (Units)	36
8	Length x Width x Thick (L x W x T) mm	430 x 665 x 35
9	Weight Kg	3.5
10	Mounting Holes Pitch (Y) - mm	210
11	Mounting Holes Pitch (X) - mm	635
12	Max. Series Fuse (A)	4
13	Junction Box Without Cable	1 DIODE
14	Module Efficiency (%)	14.32



Temperature Coefficient	
Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

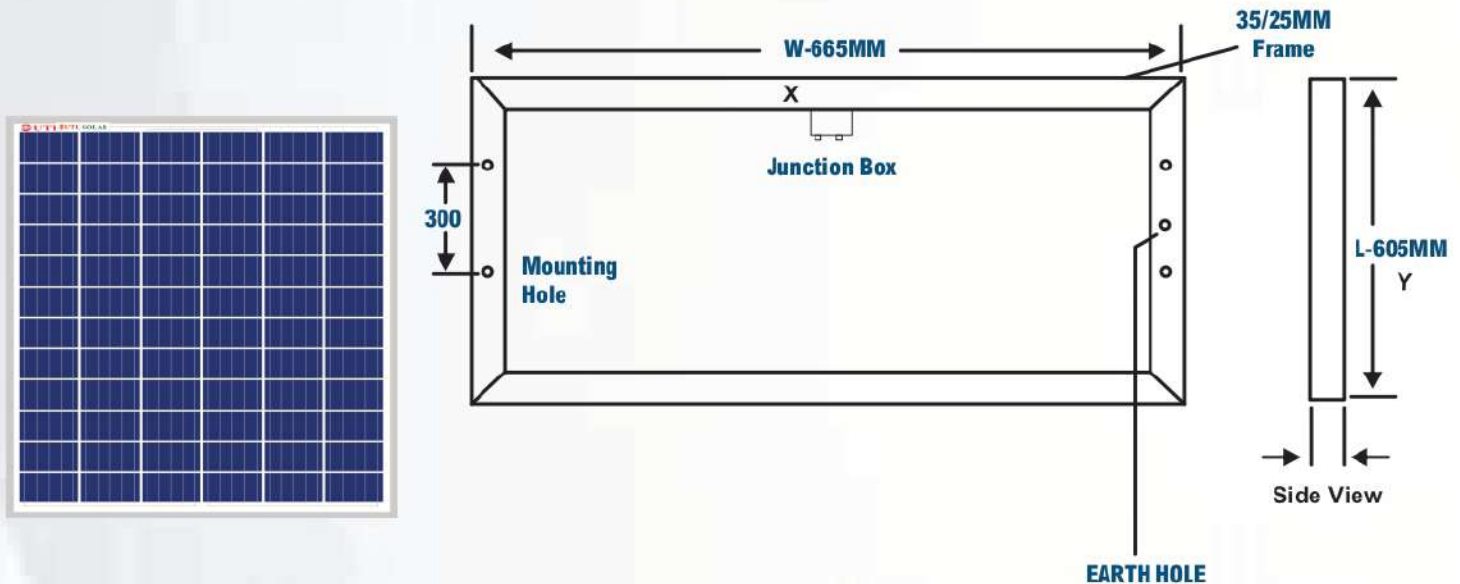
\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

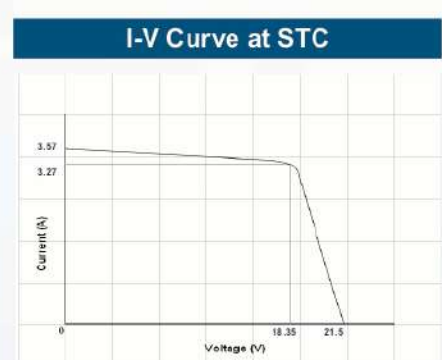
## DATA SHEET 60 WATT 12V

### Technical Specifications



Construction Features		Warranty
Type of Cell	PID Free Multi/Poly-Crystalline Si	10 Years - 90% of Power O/P
Glass	Non ARC coated, Tempered & Low Iron	15 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 67	

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	60 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	21.5
3	Short Circuit Current (Isc) in Amps	3.57
4	Voltage at Maximum Power (Vmp) in Volts	18.35
5	Current at Maximum Power (Imp) in Amps	3.27
6	Maximum System Voltage	1500
7	Solar Cells per Module (Units)	36
8	Length x Width x Thick (L x W x T) mm	605 x 665 x 35
9	Weight Kg	4.5
10	Mounting Holes Pitch (Y) - mm	300
11	Mounting Holes Pitch (X) - mm	635
12	Max. Series Fuse (A)	4
13	Junction Box Without Cable	1 DIODE
14	Module Efficiency (%)	15.04



Temperature Coefficient	
Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

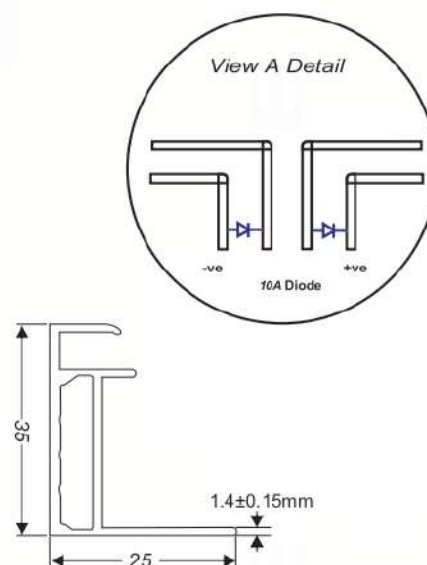
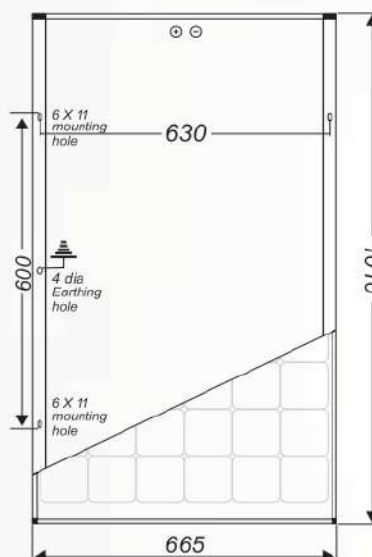
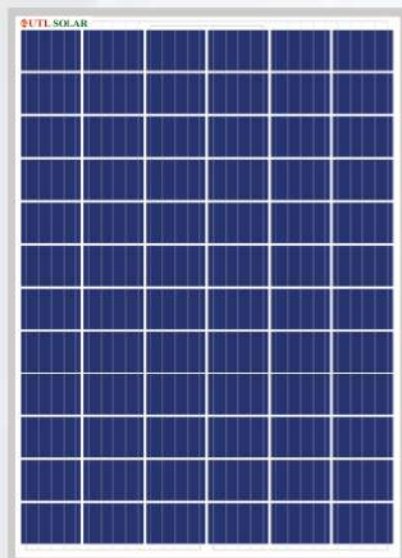
Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.



## DATA SHEET 100 WATT 12V

### Technical Specifications



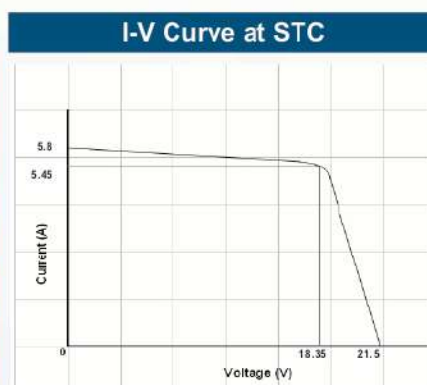
#### Construction Features

Type of Cell	PID Free Multi/Poly-Crystalline Si
Glass	Non ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>10 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 67

#### Warranty

10 Years - 90% of Power O/P
15 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	100 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	21.5
3	Short Circuit Current (Isc) in Amps	6.0
4	Voltage at Maximum Power (Vmp) in Volts	18.35
5	Current at Maximum Power (Imp) in Amps	5.56
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	36
8	Length x Width x Thick (L x W x T) mm	1010 x 665 x 35
9	Weight Kg	7.5
10	Mounting Holes Pitch (Y) - mm	600
11	Mounting Holes Pitch (X) - mm	635
12	Junction Box Without Cable	2 DIODE
13	Max. Series Fuse (A)	10
14	Module Efficiency (%)	14.89



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

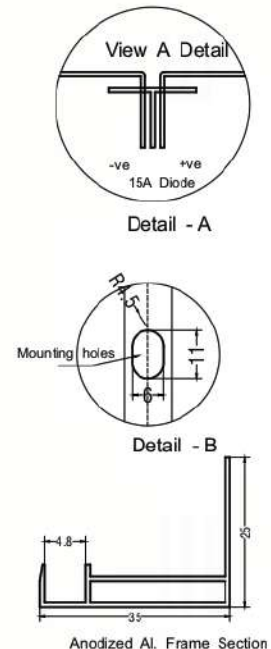
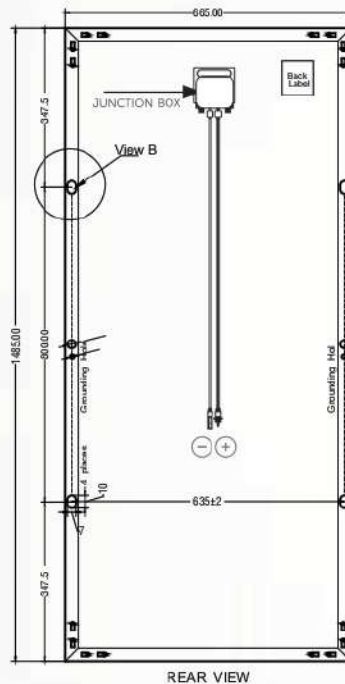
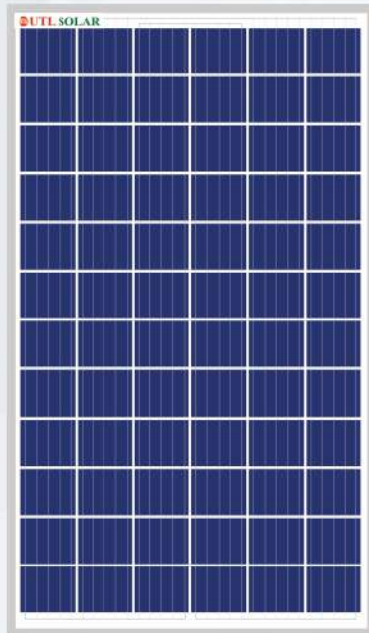
Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.



## DATA SHEET 165 WATT 12V

### Technical Specifications



#### Construction Features

Type of Cell	PID Free Multi/Poly-Crystalline Si
Glass	Non ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>10 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 67

#### Warranty

10 Years - 90% of Power O/P
15 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	165 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	21.9
3	Short Circuit Current (Isc) in Amps	9.3
4	Voltage at Maximum Power (Vmp) in Volts	18.75
5	Current at Maximum Power (Imp) in Amps	8.8
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	36
8	Length x Width x Thick (L x W x T) mm	1485 x 665 x 35
9	Weight Kg	10
10	Mounting Holes Pitch (Y) - mm	800
11	Mounting Holes Pitch (X) - mm	635
12	Junction Box Without Cable	2 DIODE
13	Max. Series Fuse (A)	20
14	Module Efficiency (%)	16.65

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

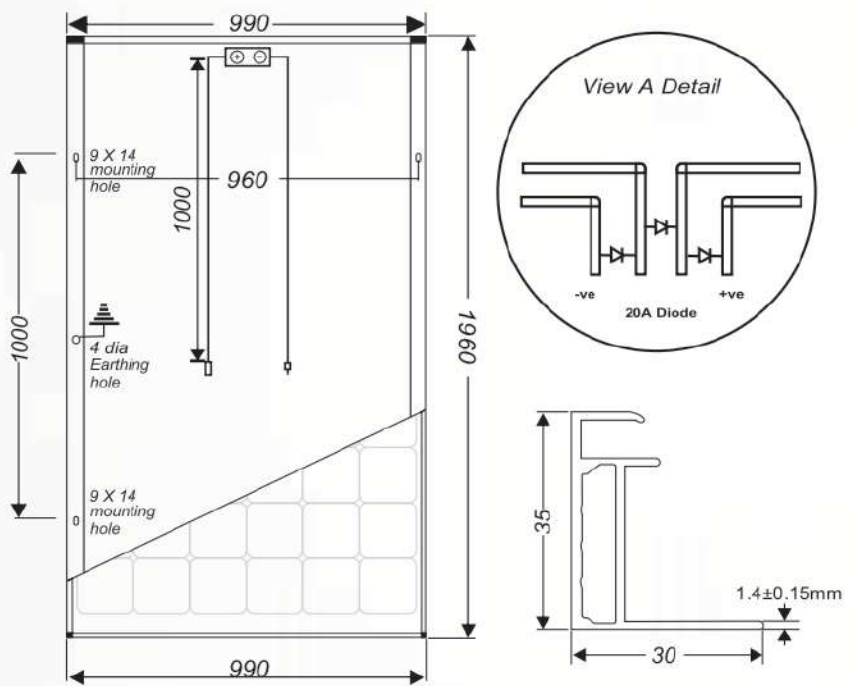
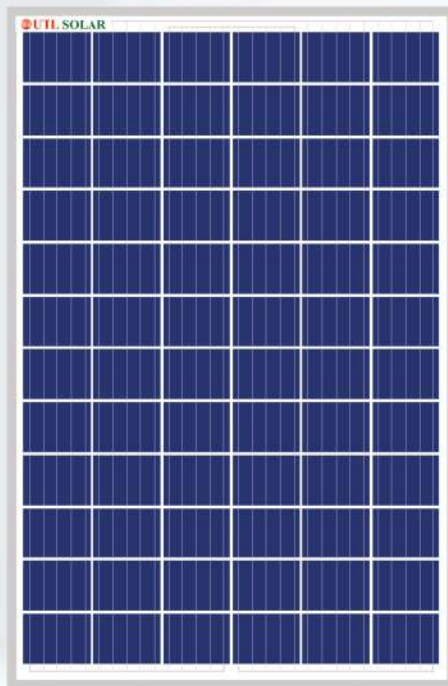
\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

## DATA SHEET 335 WATT 24V

### Technical Specifications



#### Construction Features

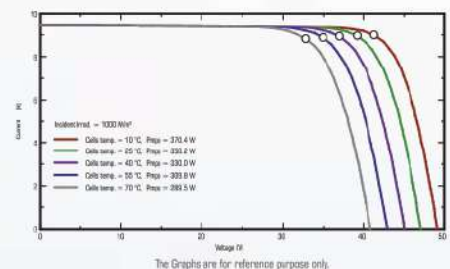
Type of Cell	PID Free Multi/Poly-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
15 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	335 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	46.4
3	Short Circuit Current (Isc) in Amps	9.25
4	Voltage at Maximum Power (Vmp) in Volts	38.30
5	Current at Maximum Power (Imp) in Amps	8.75
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	72
8	Length x Width x Thick (L x W x T) mm	1960 x 990 x 35
9	Weight Kg	20-22
10	Mounting Holes Pitch (Y) - mm	1000
11	Mounting Holes Pitch (X) - mm	960
12	Junction Box with 1200mm Cable	3 DIODE IP68
13	Max. Series Fuse (A)	20
14	Module Efficiency (%)	17.26

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47±/-2 °C

\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.





Half Cut Cells Are More Physically Durable,  
More Resistant To Cracking Reduce Power  
Loss increase module efficiency  
(Mono-Perc up to 20.95 %)



9BB/10BB instead of 5MBB  
Technology decreases the distance  
between bus bars and finger grid line  
which is benefit to power increase.



Higher lifetime Power Yield  
2.0% first year degradation,  
0.55% linear degradation



Strengthened Mechanical Support  
5400 Pa snow load, 2400 Pa wind load



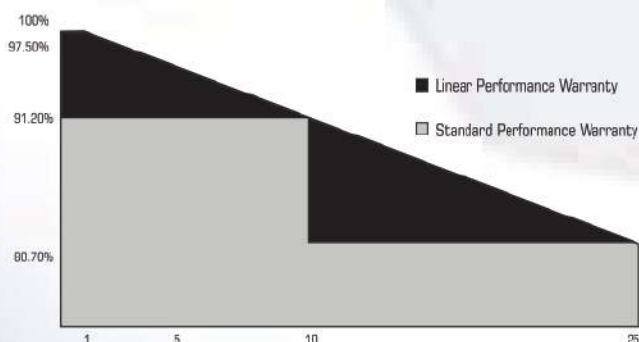
Quality and Reliability assurance  
in standard weather condition



IP68, IP67  
for Long Term Endurance

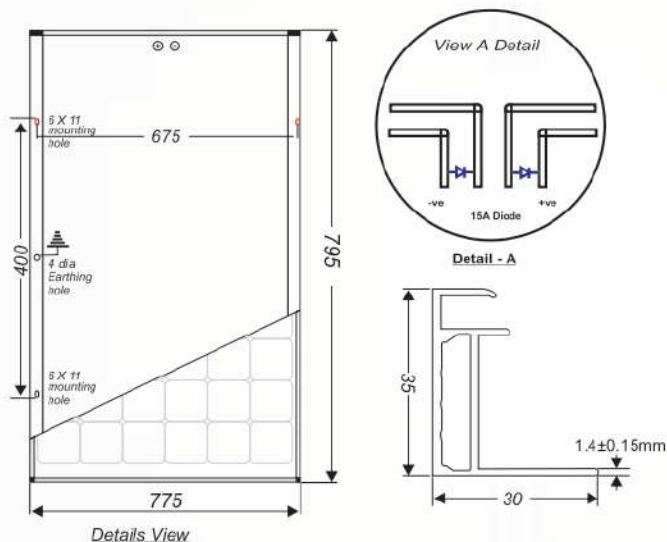


Range - 200W - 540W



## DATA SHEET 120 WATT 12V

### Technical Specifications



#### Construction Features

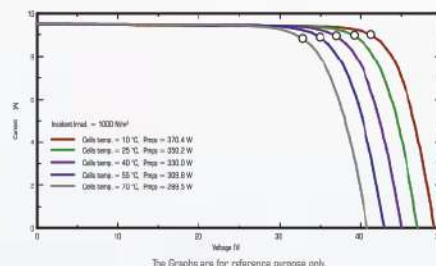
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	Non ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>10 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
15 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	120 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	23.01
3	Short Circuit Current (Isc) in Amps	6.8
4	Voltage at Maximum Power (Vmp) in Volts	21
5	Current at Maximum Power (Imp) in Amps	5.71
6	Maximum System Voltage (Vdc)	1000
7	Solar Cells per Module (Units)	32
8	Length x Width x Thick (L x W x T) mm	795 x 775 x 35
9	Weight (Kg)	6.5
10	Mounting Holes Pitch (Y) - mm	400
11	Mounting Holes Pitch (X) - mm	737
12	Junction Box without Cable	2 DIODE IP67
13	Max. Series Fuse (A)	15
14	Module Efficiency (%)	19.5

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

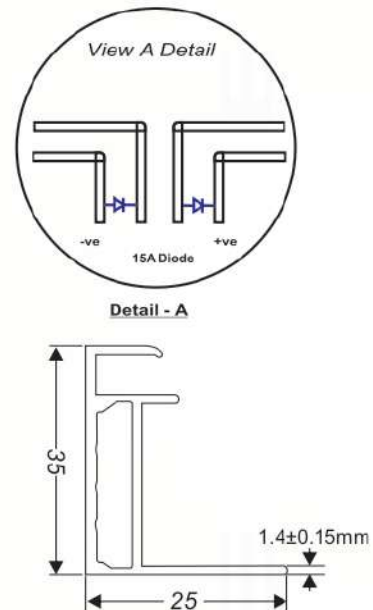
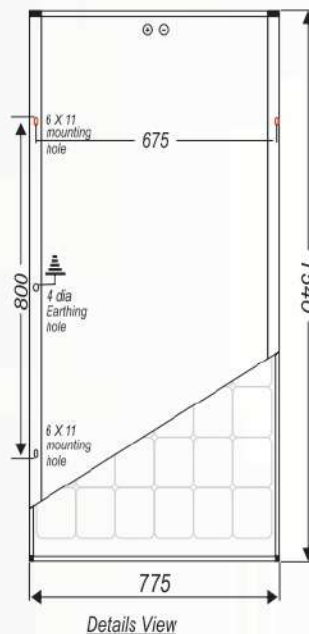
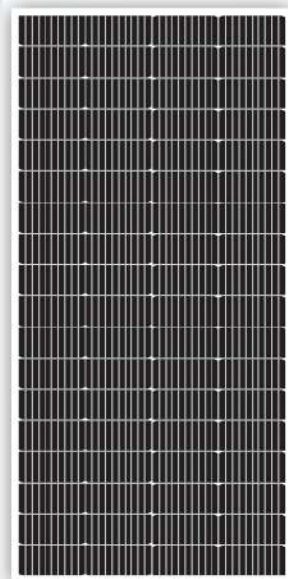
Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.



## DATA SHEET 240 WATT 12V

### Technical Specifications



#### Construction Features

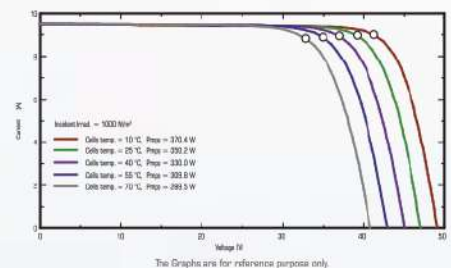
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	Non ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>12 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	240 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	23.05
3	Short Circuit Current (Isc) in Amps	13.30
4	Voltage at Maximum Power (Vmp) in Volts	19.2
5	Current at Maximum Power (Imp) in Amps	12.50
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	64
8	Length x Width x Thick (L x W x T) mm	1540 x 775 x 35
9	Weight (Kg)	13
10	Mounting Holes Pitch (Y) - mm	800
11	Mounting Holes Pitch (X) - mm	737
12	Junction Box without Cable	2 DIODE IP67
13	Max. Series Fuse (A)	20
14	Module Efficiency (%)	20.10

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

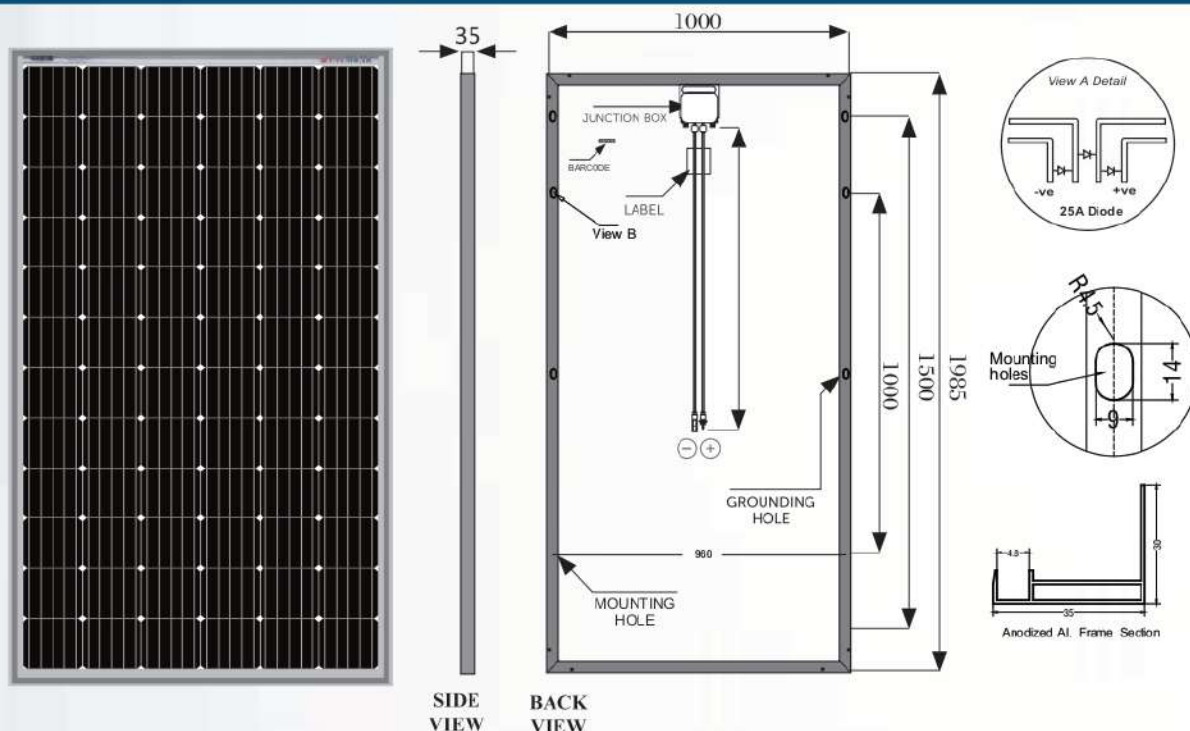
\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

## DATA SHEET 400 WATT 24V

### Technical Specifications



#### Construction Features

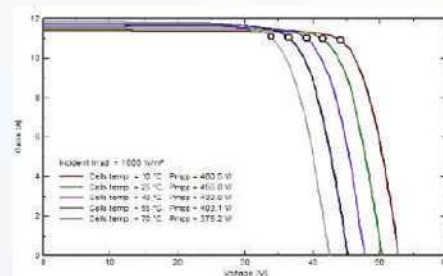
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
15 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	400 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	49.05
3	Short Circuit Current (Isc) in Amps	10.44
4	Voltage at Maximum Power (Vmp) in Volts	40.25
5	Current at Maximum Power (Imp) in Amps	9.94
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	72
8	Length x Width x Thick (L x W x T) mm	1985 x 1000 x 35
9	Weight (Kg)	22
10	Mounting Holes Pitch (Y) - mm	1000
11	Mounting Holes Pitch (X) - mm	960
12	Junction Box with 1200mm Cable	3 DIODE IP68
13	Max. Series Fuse (A)	20
14	Module Efficiency (%)	20.05

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

\*Standard Test Conditions [STC] - 1000 W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty ± 3%.

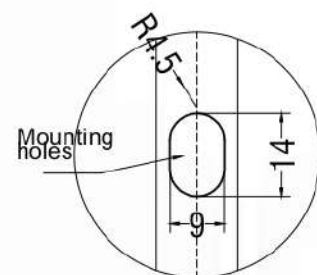
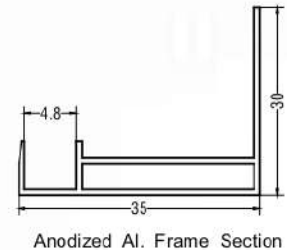
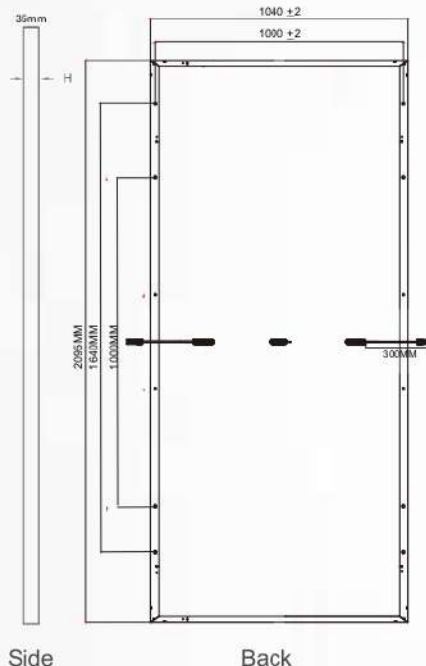
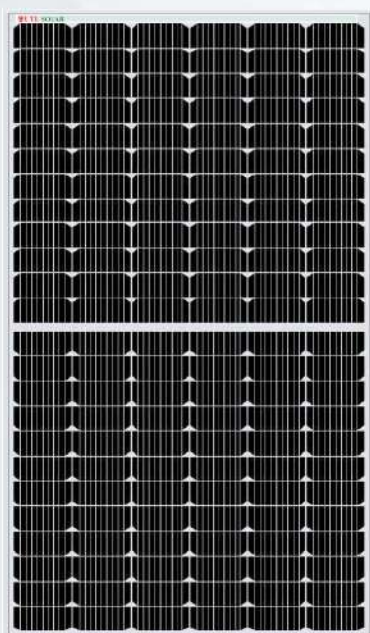
Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.



## DATA SHEET 440 WATT 24V

### Technical Specifications



#### Construction Features

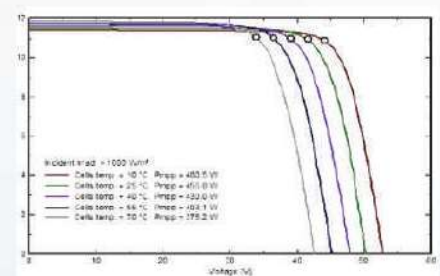
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
17 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	440 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	49.4
3	Short Circuit Current (Isc) in Amps	11.42
4	Voltage at Maximum Power (Vmp) in Volts	41.4
5	Current at Maximum Power (Imp) in Amps	10.67
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	144 (12X6, 12X6)
8	Length x Width x Thick (L x W x T) mm	2095 x 1040 x 35
9	Weight (Kg)	24
10	Mounting Holes Pitch (Y) - mm	1000, 1640
11	Mounting Holes Pitch (X) - mm	998
12	Junction Box with 300mm Cable	Split JB
13	Module Efficiency	20.10%
14	Max. Fuse Rating	25A/30A

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

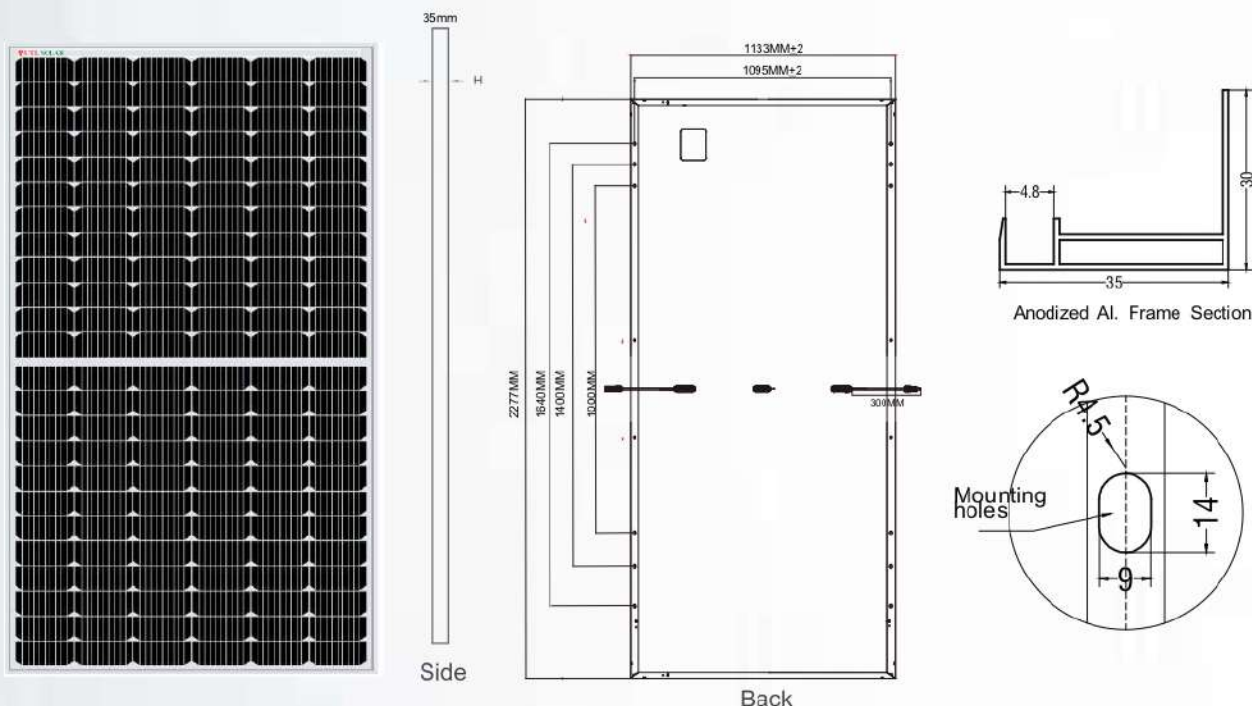
\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

## DATA SHEET 535 WATT 24V DCR

### Technical Specifications



#### Construction Features

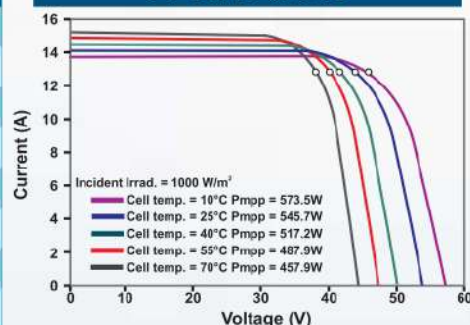
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
17 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	535 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	49.45V
3	Short Circuit Current (Isc) in Amps	13.71A
4	Voltage at Maximum Power (Vmp) in Volts	41.61V
5	Current at Maximum Power (Imp) in Amps	12.86A
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	144 (12X6, 12X6)
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35
9	Weight (Kg)	28 Approx
10	Mounting Holes Pitch (Y) - mm	1000, 1640
11	Mounting Holes Pitch (X) - mm	1095
12	Junction Box with 300mm Cable	Split JB
13	Module Efficiency	20.70%
14	Max. Fuse Rating	25A/30A

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47±2 °C

\*Standard Test Conditions [STC] - 1000 W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty ± 3%.

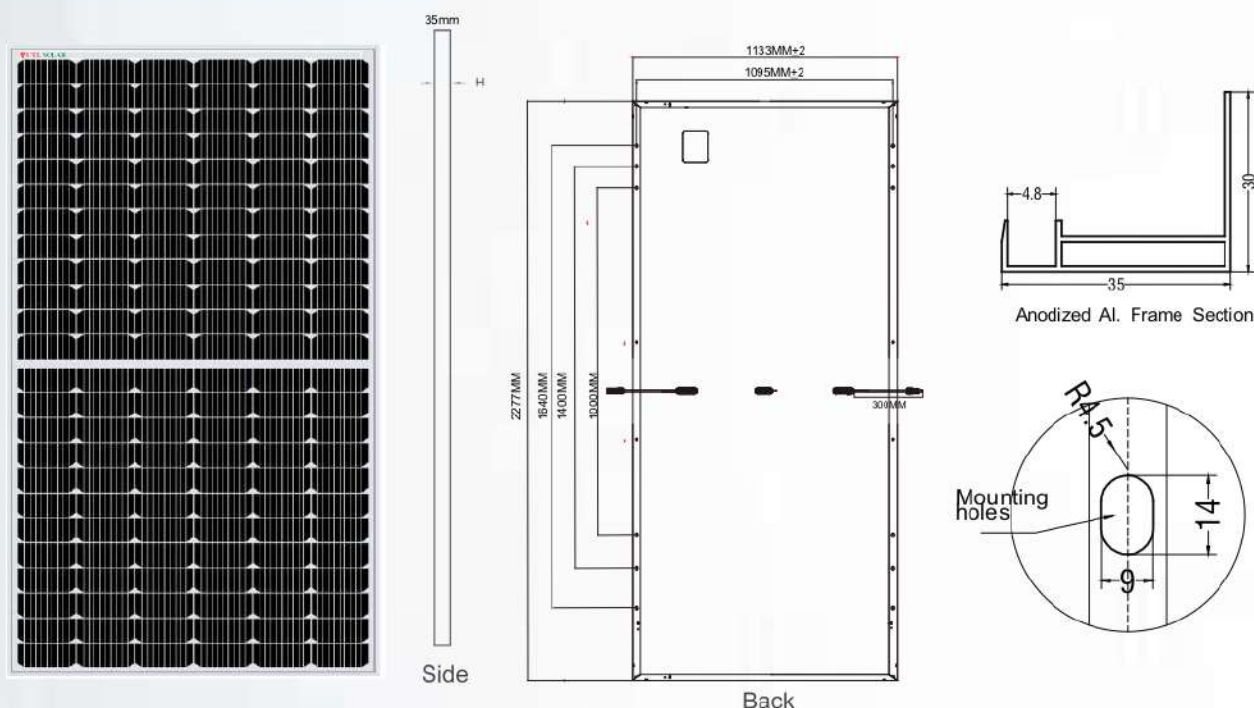
Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.



## DATA SHEET 535 WATT 24V Bi Facial

### Technical Specifications



#### Construction Features

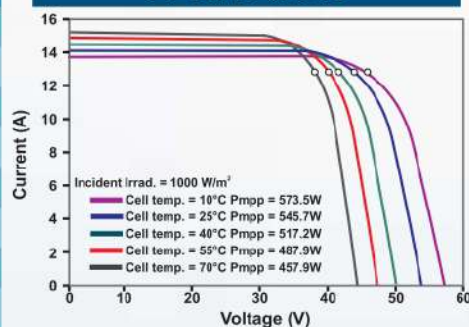
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
17 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	535 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	49.45V
3	Short Circuit Current (Isc) in Amps	13.71A
4	Voltage at Maximum Power (Vmp) in Volts	41.61V
5	Current at Maximum Power (Imp) in Amps	12.86A
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	144 (12X6, 12X6)
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35
9	Weight (Kg)	28 Approx
10	Mounting Holes Pitch (Y) - mm	1000, 1640
11	Mounting Holes Pitch (X) - mm	1095
12	Junction Box with 300mm Cable	Split JB
13	Module Efficiency	20.70%
14	Max. Fuse Rating	25A/30A

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47±2 °C

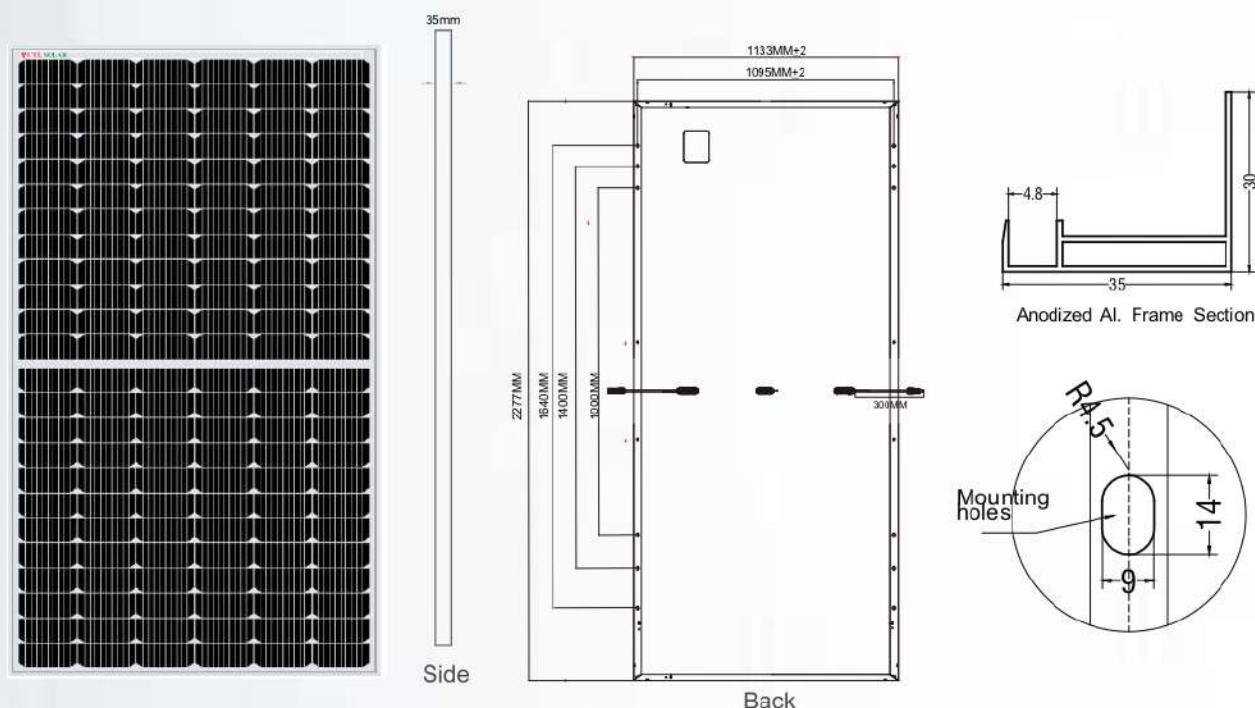
\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

## DATA SHEET 540 WATT 24V

### Technical Specifications



#### Construction Features

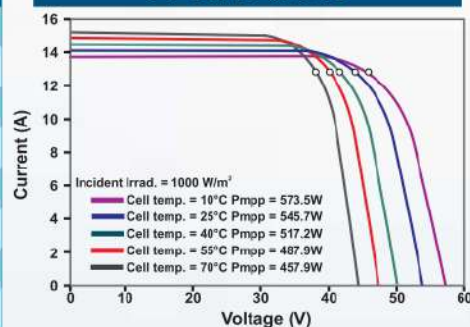
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
17 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	540 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	49.65
3	Short Circuit Current (Isc) in Amps	14.1
4	Voltage at Maximum Power (Vmp) in Volts	41.8
5	Current at Maximum Power (Imp) in Amps	13.01
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	144 (12X6, 12X6)
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35
9	Weight (Kg)	28.6
10	Mounting Holes Pitch (Y) - mm	1000, 1640
11	Mounting Holes Pitch (X) - mm	1095
12	Junction Box with 300mm Cable	Split JB
13	Module Efficiency	20.75%
14	Max. Fuse Rating	25A/30A

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C

\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

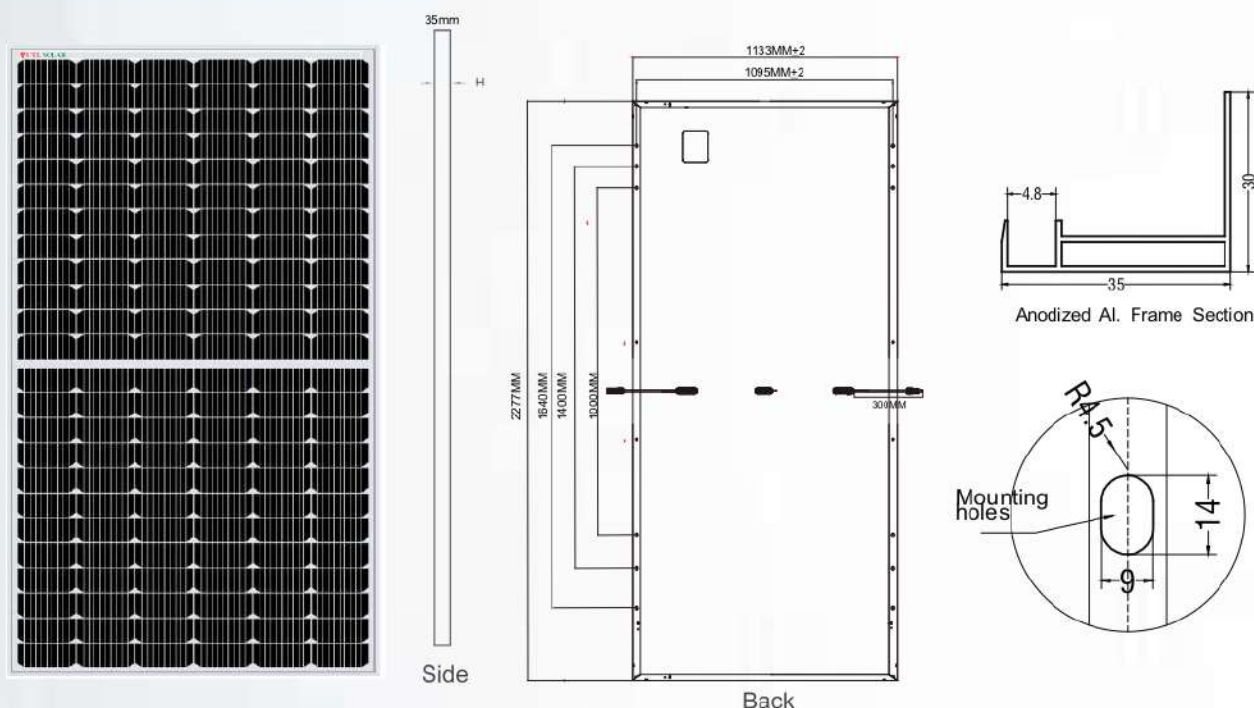
Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.



## DATA SHEET 540 WATT 24V Bi Facial

### Technical Specifications



#### Construction Features

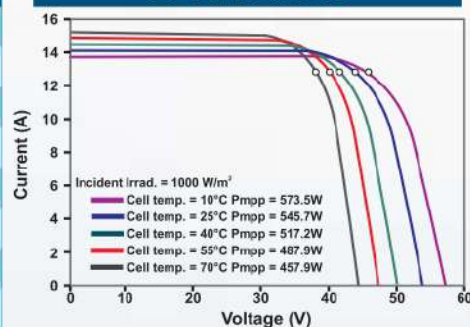
Type of Cell	PID Free/Mono Perc-Crystalline Si
Glass	ARC coated, Tempered & Low Iron
Encapsulate	PID Resistance Ethylene Vinyl Acetate
Frame	>15 micron Anodized Aluminum
Junction Box	Weather Proof Nylon IP 68

#### Warranty

10 Years - 90% of Power O/P
17 Years - 80% of Power O/P

S. No.	Description	Rating
1	Power (Pm) in Watts (nominal)	540 (0 ~+3%)
2	Open Circuit Voltage (Voc) in Volts	49.65
3	Short Circuit Current (Isc) in Amps	14.1
4	Voltage at Maximum Power (Vmp) in Volts	41.8
5	Current at Maximum Power (Imp) in Amps	13.01
6	Maximum System Voltage (Vdc)	1500
7	Solar Cells per Module (Units)	144 (12X6, 12X6)
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35
9	Weight (Kg)	29 Approx
10	Mounting Holes Pitch (Y) - mm	1000, 1640
11	Mounting Holes Pitch (X) - mm	1095
12	Junction Box with 300mm Cable	Split JB
13	Module Efficiency	20.75%
14	Max. Fuse Rating	25A/30A

#### I-V Curve at STC



#### Temperature Coefficient

Voltage	-0.35% / °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47±2 °C

\*Standard Test Conditions [STC] - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

Note :-

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

# WHY UTL SOLAR INSTALLATION IS BETTER ?

We use certified material



MCCB



ARMOURED WIRE



DCDB



ACDB

We deliver on time



Cost Effective & Reliable Installation



Warranty on Installation



## WHY MOST SOLAR PLANTS FAILS



Because all individual part supplier don't take responsibility

## Single Source Solution



Grid Tie  
INVERTER



+ SOLAR PANEL + INSTALLATION



All from UTL SOLAR

