## 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**





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 4 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.



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

#### Mission

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



#### Vision

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

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



### UTL in 2022-2023



### **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



#### Following Stringent Production Quality Assurance Programs

### **PROJECT COMMISSIONED**

#### 500kw Noida



#### **100kw Ludhiana**



#### 150kw Moga

100kw Ludhiana



100kw H.P





#### 80kw Delhi



### **POLY CRYSTALLINE SERIES**



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	I-V Cu	irve at STC
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	2.43	
4	Voltage at Maximum Power (Vmp) in Volts	18.35		
5	Current at Maximum Power (Imp) in Amps	2.18	Lent (A)	
6	Maximum System Voltage	1500	3	
7	Solar Cells per Module (Units)	36	0	18.35 21.5
8	Length x Width x Thick (L x W x T) mm	430 x 665 x 35		Voltage (V)
9	Weight Kg	3.5		
10	Mounting Holes Pitch (Y) - mm	210	Temperat	ure Coefficient
11	Mounting Holes Pitch (X) - mm	635	Voltage	-0.35% / °C
12	Max. Series Fuse (A)	4	Current	0.10% / °C
13	Junction Box Without Cable	1 DIODE	Power	-0.47% / °C
14	Module Efficiency (%)	14.32	NOCT	47+/-2 °C

#### 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	I-V C	urve at STC
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	3.57	
4	Voltage at Maximum Power (Vmp) in Volts	18.35	3.27	
5	Current at Maximum Power (Imp) in Amps	3.27	eut (A)	
6	Maximum System Voltage	1500	5	
7	Solar Cells per Module (Units)	36		
8	Length x Width x Thick (L x W x T) mm	605 x 665 x 35	U	18.35 21.5 Voltage (V)
9	Weight Kg	4.5		
10	Mounting Holes Pitch (Y) - mm	300	Tempera	ture Coefficient
11	Mounting Holes Pitch (X) - mm	635	Voltage	-0.35% / °C
12	Max. Series Fuse (A)	4	Current	0.10% / °C
13	Junction Box Without Cable	1 DIODE	Power	-0.47% / °C
14	Module Efficiency (%)	15.04	NOCT	47+/-2 °C

#### DATA SHEET 85 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	>10 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 67	

S. No.	Description	Rating	I-V Curve at STC	
1	Power (Pm) in Watts (nominal)	85 (0 ~+3%)		
2	Open Circuit Voltage (Voc) in Volts	21.90		
3	Short Circuit Current (Isc) in Amps	4.93	5.8	
4	Voltage at Maximum Power (Vmp) in Volts	18.75	5.45	
5	Current at Maximum Power (Imp) in Amps	4.53	nt (A)	
6	Maximum System Voltage (Vdc)	1500	Curre	
7	Solar Cells per Module (Units)	36		
8	Length x Width x Thick (L x W x T) mm	770 x 665 x 35	0	18.35 21.5 Voltage (V)
9	Weight Kg (Approx)	5		
10	Mounting Holes Pitch (Y) - mm	600	Tempera	ature Coefficient
11	Mounting Holes Pitch (X) - mm	635	Voltage	-0.35% / °C
12	Junction Box Without Cable	2 DIODE	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	16.60	NOCT	47+/-2 °C

#### DATA SHEET 100 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	>10 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 67	

S. No.	Description	Rating	I-V Curve at STC	
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	5.8	
4	Voltage at Maximum Power (Vmp) in Volts	18.35	5.45	
5	Current at Maximum Power (Imp) in Amps	5.56	int (A)	
6	Maximum System Voltage (Vdc)	1500	Curre	
7	Solar Cells per Module (Units)	36		
8	Length x Width x Thick (L x W x T) mm	1010 x 665 x 35	0	18.35 21.5 Voltage (V)
9	Weight Kg	7.5		
10	Mounting Holes Pitch (Y) - mm	600	Tempera	ature Coefficient
11	Mounting Holes Pitch (X) - mm	635	Voltage	-0.35% / °C
12	Junction Box Without Cable	2 DIODE	Current	0.10% / °C
13	Max. Series Fuse (A)	10	Power	-0.47% / °C
14	Module Efficiency (%)	14.89	NOCT	47+/-2 °C

#### DATA SHEET 165 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	>10 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 67	

S. No.	Description	Rating	I-V C	urve at STC
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	9.3	
4	Voltage at Maximum Power (Vmp) in Volts	18.75	8.8	
5	Current at Maximum Power (Imp) in Amps	8.8	rt (A)	
6	Maximum System Voltage (Vdc)	1500	Curre	
7	Solar Cells per Module (Units)	36		
8	Length x Width x Thick (L x W x T) mm	1485 x 665 x 35	0	18.75 21.9 Voltage (V)
9	Weight Kg	10		
10	Mounting Holes Pitch (Y) - mm	800	Tempera	ture Coefficient
11	Mounting Holes Pitch (X) - mm	635	Voltage	-0.35% / °C
12	Junction Box Without Cable	2 DIODE	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	16.65	NOCT	47+/-2 °C

#### DATA SHEET 265 WATT 24V

## **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free Multi/Poly-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	15 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>12 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Cu	rve at STC
1	Power (Pm) in Watts (nominal)	265 (0 ~+3%)	11	
2	Open Circuit Voltage (Voc) in Volts	37.4	10 9	
3	Short Circuit Current (Isc) in Amps	9.08		
4	Voltage at Maximum Power (Vmp) in Volts	30.9	5	
5	Current at Maximum Power (Imp) in Amps	8.58	2	
6	Maximum System Voltage (Vdc)	1500	0 5 10 15 20	25 30 35 40 45 Tension(V)
7	Solar Cells per Module (Units)	60		
8	Length x Width x Thick (L x W x T) mm	1640 x 990 x 35		
9	Weight Kg	18		
10	Mounting Holes Pitch (Y) - mm	1000	Temperatu	re Coefficient
11	Mounting Holes Pitch (X) - mm	950	Voltage	-0.35% / °C
12	Junction Box with 1000mm Cable	3 DIODE IP68	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	16.30	NOCT	47+/-2 °C

### DATA SHEET 335 WATT 24V

### **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free Multi/Poly-Crystalline Si	10 Years - 90% of Power O/P
Glass	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 68	

S. No.	Description	Rating	I-V Cu	urve at STC
1	Power (Pm) in Watts (nominal)	335 (0 ~+3%)	10	
2	Open Circuit Voltage (Voc) in Volts	46.4		dadad
3	Short Circuit Current (Isc) in Amps	9.25		
4	Voltage at Maximum Power (Vmp) in Volts	38.30	E         -           Incident Inred. = 1000 W(m²	
5	Current at Maximum Power (Imp) in Amps	8.75	Cells temp. – 10 °C, Prop. – 370.4 W Cells temp. – 25 °C, Prop. – 350.2 W Cells temp. – 40 °C, Prop. – 350.2 W	
6	Maximum System Voltage (Vdc)	1500	2 Calis temp. — 33 °C, Prop = 300 S W Calis temp. — 70 °C, Prop = 289.5 W	
7	Solar Cells per Module (Units)	72		U
8	Length x Width x Thick (L x W x T) mm	1960 x 990 x 35	The Graphs	are for reference purpose only,
9	Weight Kg	20-22		
10	Mounting Holes Pitch (Y) - mm	1000	Temperat	ure Coefficient
11	Mounting Holes Pitch (X) - mm	960	Voltage	-0.35% / °C
12	Junction Box with 1200mm Cable	3 DIODE IP68	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	17.26	NOCT	47+/-2 °C

#### DATA SHEET 335 WATT 24V DCR

## **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free Multi/Poly-Crystalline Si	10 Years - 90% of Power O/P
Glass	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 68	

S. No.	Description	Rating	I-V C	urve at STC
1	Power (Pm) in Watts (nominal)	335 (0 ~+3%)	10	
2	Open Circuit Voltage (Voc) in Volts	46.4		ddddd
3	Short Circuit Current (Isc) in Amps	9.25	-	
4	Voltage at Maximum Power (Vmp) in Volts	38.30	S B Incident Irred. = 1000 W/m <sup>2</sup>	
5	Current at Maximum Power (Imp) in Amps	8.75	Cells temp. — 10 °C, Prop. — 370.4 W Cells temp. — 25 °C, Prop. — 350.2 W Cells temp. — 40 °C, Prop. — 330.0 W	
6	Maximum System Voltage (Vdc)	1500	2 Calls temp 70 °C, Propp - 283.5 W	
7	Solar Cells per Module (Units)	72		20 30 40 5 Voltage (V)
8	Length x Width x Thick (L x W x T) mm	1985 x 1000 x 35	The Graph	is are for reference purpose only.
9	Weight Kg	20-22		
10	Mounting Holes Pitch (Y) - mm	1000	Temperat	ture Coefficient
11	Mounting Holes Pitch (X) - mm	960	Voltage	-0.35% / °C
12	Junction Box with 1200mm Cable	3 DIODE IP68	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	16.8	NOCT	47+/-2 °C

#### **MONO-PERC SERIES**



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 - 100W - 670W



#### DATA SHEET 40 WATT 12V MONO

## **Technical Specifications**



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-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	>10 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Cu	urve at STC
1	Power (Pm) in Watts (nominal)	40 (0 ~+3%)		
2	Open Circuit Voltage (Voc) in Volts	25.15		adada
3	Short Circuit Current (Isc) in Amps	2.15	8-	
4	Voltage at Maximum Power (Vmp) in Volts	21	≤ 6- š incident irred 1000 Wim <sup>e</sup>	
5	Current at Maximum Power (Imp) in Amps	1.90	Golis temp. – 10 °C, Propp. – 370.4 W Cells temp. – 25 °C, Propp. = 350.2 W Cells temp. – 40 °C, Propp. – 330.0 W	
6	Maximum System Voltage (Vdc)	600	2 - Calis temp. = 55 °C, Pmpp = 303.8 W Calis temp 70 °C, Pmpp - 283.5 W	
7	Solar Cells per Module (Units)	32	veque m The Graphs are for reference purpose only.	
8	Length x Width x Thick (L x W x T) mm	565 x 405 x 35		
9	Weight (Kg)	3		
10	Mounting Holes Pitch (Y) - mm	365	Temperat	ure Coefficient
11	Mounting Holes Pitch (X) - mm	210	Voltage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Current	0.10% / °C
13	Max. Series Fuse (A)	15	Power	-0.47% / °C
14	Module Efficiency (%)	17.9	NOCT	47+/-2 °C

#### DATA SHEET 120 WATT 12V

### **Technical Specifications**



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-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	>10 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V C	Curve at STC
1	Power (Pm) in Watts (nominal)	120 (0 ~+3%)		
2	Open Circuit Voltage (Voc) in Volts	23.01	10	aaqaa .
3	Short Circuit Current (Isc) in Amps	6.8	8-	
4	Voltage at Maximum Power (Vmp) in Volts	21	E =	
5	Current at Maximum Power (Imp) in Amps	5.71	4 - Colls temp 10 °C. Prop 370.4' Colls temp 25 °C. Prop 330.0' Cells temp 40 °C. Prop 330.0	
6	Maximum System Voltage (Vdc)	1000	2 - Cells temp. = 55 °C, Propp = 303 B Cells temp 70 °C, Propp = 289.5 °	
7	Solar Cells per Module (Units)	32		
8	Length x Width x Thick (L x W x T) mm	795 x 775 x 35	wage (V) The Graphs are for reference purpose only.	
9	Weight (Kg)	6.5		
10	Mounting Holes Pitch (Y) - mm	400	Tempera	ature Coefficient
11	Mounting Holes Pitch (X) - mm	737	Voltage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Current	0.10% / °C
13	Max. Series Fuse (A)	15	Power	-0.47% / °C
14	Module Efficiency (%)	19.5	NOCT	47+/-2 °C

#### DATA SHEET 150 Watt Topcon (Half-Cut)

## **Technical Specifications**



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-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	>10 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V	Curve at STC
1	Power (Pm) in Watts (nominal)	150 (0 ~+3%)		
2	Open Circuit Voltage (Voc) in Volts	25.63	10	aaaaa
3	Short Circuit Current (Isc) in Amps	7.30	8-	
4	Voltage at Maximum Power (Vmp) in Volts	22.05	E Incident Inved = 1000 Win?	
5	Current at Maximum Power (Imp) in Amps	6.80	Gelis temp. – 10 °C. Prop. – Calis temp. = 25 °C. Prop. – Calis temp. = 25 °C. Prop. – Calis temp. – 40 °C. Prop. –	- 370.4 W - 350.2 W - 380.0 W
6	Maximum System Voltage (Vdc)	1500	2 - Calls temp. = 55 °C, Propp - Calls temp 70 °C, Propp -	= 309.8 W - 289.5 W
7	Solar Cells per Module (Units)	36		
8	Length x Width x Thick (L x W x T) mm	890 x 775 x 35	Watage W The Graphs are for reference purpose only.	
9	Weight (Kg)	7		
10	Mounting Holes Pitch (Y) - mm	600	Tempe	erature Coefficient
11	Mounting Holes Pitch (X) - mm	735	Voltage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	22	NOCT	47+/-2 °C

#### DATA SHEET 240 WATT 12V

## **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
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	

S. No.	Description	Rating	I-V Cι	irve at STC
1	Power (Pm) in Watts (nominal)	240 (0 ~+3%)		
2	Open Circuit Voltage (Voc) in Volts	23.05		adada
3	Short Circuit Current (Isc) in Amps	13.30	-	
4	Voltage at Maximum Power (Vmp) in Volts	19.2	g 6 - ≩ Incident Irred 1000 Wim <sup>2</sup>	
5	Current at Maximum Power (Imp) in Amps	12.50	Gelis temp. – 10 °C, Prop. – 370.4 W Celis temp. – 25 °C, Prop. = 350.2 W Celis temp. – 40 °C, Prop. = 330.0 W	
6	Maximum System Voltage (Vdc)	1500	2 - Cells temp. = 55 °C, Pmpp = 309.8 W Cells temp. = 70 °C, Pmpp = 289.5 W	
7	Solar Cells per Module (Units)	64		
8	Length x Width x Thick (L x W x T) mm	1540 x 775 x 35	The Graphs a	are for reference purpose only.
9	Weight (Kg)	13		
10	Mounting Holes Pitch (Y) - mm	800	Temperat	ure Coefficient
11	Mounting Holes Pitch (X) - mm	740	Voltage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	20.10	NOCT	47+/-2 °C

#### DATA SHEET 275 WATT MONO (Half-Cut)

## **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
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	

S. No.	Description	Rating	I-V Cu	rve at STC
1	Power (Pm) in Watts (nominal)	275 (0 ~+3%)		
2	Open Circuit Voltage (Voc) in Volts	50.30		addad
3	Short Circuit Current (Isc) in Amps	7.21	a - -	
4	Voltage at Maximum Power (Vmp) in Volts	40.90	د المنافعة ا	
5	Current at Maximum Power (Imp) in Amps	6.71	4 - Colls temp 10 °C, Prop 370.4 W Colls temp 25 °C, Prop 350.2 W Cells temp 40 °C, Prop 330.0 W	
6	Maximum System Voltage (Vdc)	1500	2 - Calls temp. = 55 °C, Prop. = 303.8 W Calls temp 70 °C, Prop 289.5 W	
7	Solar Cells per Module (Units)	72	0 10 20	30 40 50
8	Length x Width x Thick (L x W x T) mm	1725 x 775 x 35	The Graphs ar	e for reference purpose only.
9	Weight (Kg)	14		
10	Mounting Holes Pitch (Y) - mm	1000	Temperati	ure Coefficient
11	Mounting Holes Pitch (X) - mm	740	Voltage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	20.80	NOCT	47+/-2 °C

#### DATA SHEET 340 Watt Mono (Half Cut)

## **Technical Specifications**

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847

GROUNDING HOLE





Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	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 68	

S. No.	Description	Rating	I-V C	urve at STC
1	Power (Pm) in Watts (nominal)	340 (0 ~+3%)	17	
2	Open Circuit Voltage (Voc) in Volts	47.88	10	00000
3	Short Circuit Current (Isc) in Amps	9.31		
4	Voltage at Maximum Power (Vmp) in Volts	39.05	Mi w	
5	Current at Maximum Power (Imp) in Amps	8.71	3 incident in ad + 1000 Wint 4	- 460 5 VP
6	Maximum System Voltage (Vdc)	1500	Cets temp + 25 °C. Pres Cets temp + 40 °C. Pres Cets temp + 35 °C. Pres Cets temp + 55 °C. Pres 2 - Cets temp + 55 °C. Pres	- 465 8 W - 430 0 W - 402 1 W - 375 2 W
7	Solar Cells per Module (Units)	68		
8	Length x Width x Thick (L x W x T) mm	1870 x 885 x 35	A. 8	00 40 50 Votope (V)
9	Weight (Kg)	18		
10	Mounting Holes Pitch (Y) - mm	1000	Tempera	ture Coefficient
11	Mounting Holes Pitch (X) - mm	847	Voltage	-0.35% / °C
12	Junction Box with 1200mm Cable	3 DIODE IP68	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	20.70	NOCT	47+/-2 °C

#### DATA SHEET 365 Watt Mono (Half Cut)

## **Technical Specifications**





Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	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 68	

S. No.	Description	Rating	I-V C	Curve at STC
1	Power (Pm) in Watts (nominal)	365 (0 ~+3%)	17	
2	Open Circuit Voltage (Voc) in Volts	51.02	12	00000
3	Short Circuit Current (Isc) in Amps	9.37		
4	Voltage at Maximum Power (Vmp) in Volts	41.63	No. al	
5	Current at Maximum Power (Imp) in Amps	8.77	3 incident linad = 1000 Wint 4 - Cols Jenu = 10 °C P	ryp = 400 5 W
6	Maximum System Voltage (Vdc)	1500	Cetis temp - 26 °C P Cetis temp - 40 °C P Cetis temp - 40 °C P Cetis temp - 55 °C P 2 - Cetis temp - 55 °C P	nep = 455.8 W nep = 432.0 W nep = 402.1 W rec = 375.2 W
7	Solar Cells per Module (Units)	72		
8	Length x Width x Thick (L x W x T) mm	1980 x 885 x 35	2005	Votage (V)
9	Weight (Kg)	19		
10	Mounting Holes Pitch (Y) - mm	1000	Tempera	ature Coefficient
11	Mounting Holes Pitch (X) - mm	847	Voltage	-0.35% / °C
12	Junction Box with 1200mm Cable	3 DIODE IP68	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	21	NOCT	47+/-2 °C

### DATA SHEET 365 Watt Mono Bi-Facial (Half Cut)

## **Technical Specifications**

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GROUNDING HOLE





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Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	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 68	

S. No.	Description	Rating	I-V Cu	rve at STC
1	Power (Pm) in Watts (nominal)	365 (0 ~+3%)	17	
2	Open Circuit Voltage (Voc) in Volts	51.02	13-	odadd
3	Short Circuit Current (Isc) in Amps	9.37	8-	
4	Voltage at Maximum Power (Vmp) in Volts	41.63	K a	
5	Current at Maximum Power (Imp) in Amps	8.77	3 incident ined + 1000 Why 4	480 5 W
6	Maximum System Voltage (Vdc)	1500	2 - Cels temp - 25 °C Pres Cels temp - 40 °C Pres 2 - Cels temp - 55 °C Pres 2 - Cels temp - 70 °C Pres	-65.8 W 433.0 W 402.1 W 375.2 W
7	Solar Cells per Module (Units)	72		
8	Length x Width x Thick (L x W x T) mm	1980 x 885 x 35	20 <b>0</b> 1 <b>10</b> 1 <b>20</b> 1	Votage (V)
9	Weight (Kg)	19		
10	Mounting Holes Pitch (Y) - mm	1000	Temperat	ure Coefficient
11	Mounting Holes Pitch (X) - mm	847	Voltage	-0.35% / °C
12	Junction Box with 1200mm Cable	3 DIODE IP68	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	21	NOCT	47+/-2 °C

#### DATA SHEET 385 WATT 24V

## **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
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	

S. No.	Description	Rating	ŀ	V Curve at STC
1	Power (Pm) in Watts (nominal)	385		
2	Open Circuit Voltage (Voc) in Volts	53.51	10	addda .
3	Short Circuit Current (Isc) in Amps	9.53	8	
4	Voltage at Maximum Power (Vmp) in Volts	43.64	로 8 또 Incident Irred. — 1000 Wirr <sup>o</sup>	
5	Current at Maximum Power (Imp) in Amps	8.83	4 - Colis temp 10 °C.   Colis temp 25 °C.   Colis temp 40 °C.	πτρ. = 370.4 W         -           πτρ. = 350.2 W         -           ήτορ. = 330.0 W         -
6	Maximum System Voltage (Vdc)	1500	2 - Cells temp. = 55 °C, 1 Cells temp 70 °C, 1	hτρρ = 303.8 W hτρρ = 283.5 W
7	Solar Cells per Module (Units)	76	0 10	20 30 40 50
8	Length x Width x Thick (L x W x T) mm	2093 x 1038 x 35		The Graphs are for reference purpose only.
9	Weight (Kg)	20		
10	Mounting Holes Pitch (Y) - mm	1000	Tem	perature Coefficient
11	Mounting Holes Pitch (X) - mm	1003	Voltage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Current	0.10% / °C
13	Max. Series Fuse (A)	20	Power	-0.47% / °C
14	Module Efficiency (%)	17.71	NOCT	47+/-2 °C

#### DATA SHEET 390 WATT 24V

## **Technical Specifications**







Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
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	

S. No.	Description	Rating		I-V Curve	e at STC
1	Power (Pm) in Watts (nominal)	390			
2	Open Circuit Voltage (Voc) in Volts	53.51	10		adada .
3	Short Circuit Current (Isc) in Amps	9.64	8 -		
4	Voltage at Maximum Power (Vmp) in Volts	43.64	≤ 6 - ž Incident	Irred. – 1000 Wim <sup>e</sup>	
5	Current at Maximum Power (Imp) in Amps	8.94	4-	4 Calt tang 10 °C, Prop = 370 4 W Calt tang 10 °C, Prop = 350 2 W Calt tang 10 °C, Prop = 350 2 W	
6	Maximum System Voltage (Vdc)	1500	2	<ul> <li>Cells temp. = 55 °C, Propp = 303.8 W</li> <li>Cells temp. = 70 °C, Propp = 289.5 W</li> </ul>	
7	Solar Cells per Module (Units)	76	0		
8	Length x Width x Thick (L x W x T) mm	2093 x 1038 x 35		The Graphs are for re	ference purpose only.
9	Weight (Kg)	20			
10	Mounting Holes Pitch (Y) - mm	1000		Temperature	Coefficient
11	Mounting Holes Pitch (X) - mm	1003	Vo	Itage	-0.35% / °C
12	Junction Box without Cable	2 DIODE IP67	Cu	rrent	0.10% / °C
13	Max. Series Fuse (A)	20	Po	wer	-0.47% / °C
14	Module Efficiency (%)	17.71	NC	ОСТ	47+/-2 °C

#### DATA SHEET 440 WATT 24V

## **Technical Specifications**

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Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curv	e at STC
1	Power (Pm) in Watts (nominal)	440 (0 ~+3%)	12	
2	Open Circuit Voltage (Voc) in Volts	49.4	12	00000
3	Short Circuit Current (Isc) in Amps	11.42	8 -	/////
4	Voltage at Maximum Power (Vmp) in Volts	41.4	4 -	
5	Current at Maximum Power (Imp) in Amps	10.67	4 - Cells temp + 10 10 Pmp + 400 5 VI - Cells temp + 10 10 Pmp + 400 5 VI - Cells temp + 25 10 Pmp + 450 5 VI	
6	Maximum System Voltage (Vdc)	1500	2 Cells terms + 40 % / Hrsp + 430 0 W Cells terms + 55 % / Press + 432 0 W 2 Cells terms + 70 % / Press + 375 2 W	
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	3 to 20	50 40 50
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	Temperatur	e Coefficient
11	Mounting Holes Pitch (X) - mm	998	Voltage	-0.35% /
12	Junction Box with 300mm Cable	Split JB	Current	0.10% /
13	Module Efficiency	20.10%	Power	-0.47% /
14	Max. Fuse Rating	25A/30A	NOCT	47+/-2 °(

\*Standard Test Conditions [SIC] -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.

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-0.35% / °C 0.10% / °C -0.47% / °C 47+/-2 °C

#### DATA SHEET 535 WATT 24V DCR

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	535 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	49.45V	14
3	Short Circuit Current (Isc) in Amps	13.71A	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	41.61V	
5	Current at Maximum Power (Imp) in Amps	12.86A	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	้ 10 20 30 40 50 6 Voltage(V)
9	Weight (Kg)	28 Approx	
10	Mounting Holes Pitch (Y) - mm	1000, 1640	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	20.70%	Power -0.47% / °C
14	Max. Fuse Rating	25A/30A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	535 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	49.45V	14
3	Short Circuit Current (Isc) in Amps	13.71A	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	41.61V	
5	Current at Maximum Power (Imp) in Amps	12.86A	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	้ 10 20 30 40 50 6 Voltage(V)
9	Weight (Kg)	28 Approx	
10	Mounting Holes Pitch (Y) - mm	1000, 1640	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	20.70%	Power -0.47% / °C
14	Max. Fuse Rating	25A/30A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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 540 WATT 24V

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	540 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	49.65	14
3	Short Circuit Current (Isc) in Amps	14.1	₹ 10-
4	Voltage at Maximum Power (Vmp) in Volts	41.8	
5	Current at Maximum Power (Imp) in Amps	13.01	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	0 10 20 30 40 50 60 Voltage (V)
9	Weight (Kg)	28.6	
10	Mounting Holes Pitch (Y) - mm	1000, 1640	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	20.75%	Power -0.47% / °C
14	Max. Fuse Rating	25A/30A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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 540 Watt 24V Bi Facial**

### **Technical Specifications**







Anodized Al. Frame Section



<b>Construction Fe</b>	atures	Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	540 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	49.65	14
3	Short Circuit Current (Isc) in Amps	14.1	₹ 10-
4	Voltage at Maximum Power (Vmp) in Volts	41.8	-8 -
5	Current at Maximum Power (Imp) in Amps	13.01	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	0 10 20 30 40 50 60 Voltage (V)
9	Weight (Kg)	29 Approx	
10	Mounting Holes Pitch (Y) - mm	1000, 1640	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	20.75%	Power -0.47% / °C
14	Max. Fuse Rating	25A/30A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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 555 Watt Mono Half Cut**

### **Technical Specifications**







Anodized Al. Frame Section



<b>Construction Fe</b>	atures	Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	555 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	50.38	14
3	Short Circuit Current (Isc) in Amps	14.25	<del>a</del> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	41.12	, , , , , , , , , , , , , , , , , , ,
5	Current at Maximum Power (Imp) in Amps	13.50	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	้ได้ 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	28	
10	Mounting Holes Pitch (Y) - mm	1640, 1400, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	21.70%	Power -0.47% / °C
14	Max. Fuse Rating	50A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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 555 Watt Mono Bifacial Half Cut

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	555 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	50.38	14
3	Short Circuit Current (Isc) in Amps	14.25	<del>a</del> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	41.12	, () 8-
5	Current at Maximum Power (Imp) in Amps	13.50	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144 (12X6, 12X6)	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	o 10 20 30 40 50 60 Voltage(V)
9	Weight (Kg)	28	
10	Mounting Holes Pitch (Y) - mm	1640, 1400, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	21.70%	Power -0.47% / °C
14	Max. Fuse Rating	50A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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 580 Watt Topcon Half Cut**

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	580 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	51.03	14
3	Short Circuit Current (Isc) in Amps	14.04	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	43.64	-8 -
5	Current at Maximum Power (Imp) in Amps	13.29	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	0 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	28	
10	Mounting Holes Pitch (Y) - mm	1640, 1400, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	22.6%	Power -0.47% / °C
14	Max. Fuse Rating	50A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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.

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#### **DATA SHEET 590 Watt Topcon Half Cut**

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	590 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	51.43	14
3	Short Circuit Current (Isc) in Amps	14.1	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	44.10	5 8-
5	Current at Maximum Power (Imp) in Amps	13.38	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2277 x 1133 x 35	0 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	28	
10	Mounting Holes Pitch (Y) - mm	1640, 1400, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1095	Voltage -0.35%/°C
12	Junction Box with 300mm Cable	Split JB	Current 0.10%/°C
13	Module Efficiency	23%	Power -0.47% / °C
14	Max. Fuse Rating	50A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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.

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#### DATA SHEET 610 Watt 48V

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box Weather Proof Nylon IP 68		

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	610	16
2	Open Circuit Voltage (Voc) in Volts	84.50	14
3	Short Circuit Current (Isc) in Amps	9.60	<b>a</b> 10
4	Voltage at Maximum Power (Vmp) in Volts	68.95	-8 -
5	Current at Maximum Power (Imp) in Amps	8.90	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	120	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2185 x 1305 x 35	0 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	29	
10	Mounting Holes Pitch (Y) - mm	1000/1640	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1270	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	
13	Module Efficiency	21.40%	Power -0.47% / °C
14	Max.Series Fuse (A)	30A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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 670 Watt Mono Half Cut**

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	670 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	46.76	14
3	Short Circuit Current (Isc) in Amps	18.31	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	38.16	- 8 -
5	Current at Maximum Power (Imp) in Amps	17.56	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	132	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2410 x 1305 x 35	odi 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	34	
10	Mounting Holes Pitch (Y) - mm	2000, 1640, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1266	Voltage -0.35% / °C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	21.4%	Power -0.47% / °C
14	Max. Fuse Rating	35A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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.

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#### **DATA SHEET 670 Watt Bifacial Half Cut**

### **Technical Specifications**







Anodized Al. Frame Section



Construction Features		Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	670 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	46.76	14
3	Short Circuit Current (Isc) in Amps	18.31	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	38.16	5 8-
5	Current at Maximum Power (Imp) in Amps	17.56	6 - Incident Irrad. = 1000 W/m <sup>2</sup> Cell temp. = 10°C Pmpp = 573.5W
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	132	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2410 x 1305 x 35	0 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	34	
10	Mounting Holes Pitch (Y) - mm	2000, 1640, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1266	Voltage -0.35%/°C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	21.4%	Power -0.47% / °C
14	Max. Fuse Rating	35A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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.

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#### **DATA SHEET 735 Watt Bifacial Half Cut**

### **Technical Specifications**







Anodized Al. Frame Section



<b>Construction Fe</b>	atures	Warranty
Type of Cell	PID Free/Mono Perc-Crystalline Si	10 Years - 90% of Power O/P
Glass	ARC coated, Tempered & Low Iron	17 Years - 80% of Power O/P
Encapsulate	PID Resistance Ethylene Vinyl Acetate	
Frame	>15 micron Anodized Aluminum	
Junction Box	Weather Proof Nylon IP 68	

S. No.	Description	Rating	I-V Curve at STC
1	Power (Pm) in Watts (nominal)	735 (0 ~+3%)	16
2	Open Circuit Voltage (Voc) in Volts	51.15	14
3	Short Circuit Current (Isc) in Amps	18.35	<b>a</b> 10 -
4	Voltage at Maximum Power (Vmp) in Volts	41.75	
5	Current at Maximum Power (Imp) in Amps	17.60	6 - Incident Irrad. = 1000 W/m <sup>2</sup>
6	Maximum System Voltage (Vdc)	1500	4 - Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W
7	Solar Cells per Module (Units)	144	2 - Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W
8	Length x Width x Thick (L x W x T) mm	2605 x 1305 x 35	0 10 20 30 40 50 6 Voltage (V)
9	Weight (Kg)	34	
10	Mounting Holes Pitch (Y) - mm	2000, 1400, 1000	Temperature Coefficient
11	Mounting Holes Pitch (X) - mm	1267	Voltage -0.35%/°C
12	Junction Box with 300mm Cable	Split JB	Current 0.10% / °C
13	Module Efficiency	21.5%	Power -0.47% / °C
14	Max. Fuse Rating	50A	NOCT 47+/-2 °C

\*Standard Test Conditions [SIC] -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.

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