UTL SOLAR

N-Type TOPCon Solar Module

275W - 590W

- Half Cut Cells Are More Physically Durable, More Resistant To Cracking Reduce Power Loss increase module efficiency (Topcon up to 23 %)
- Lower degradation rate, ensure consistent power over longer lifespan
- 16BB instead of 10MBB Technology decreases the distance between bus bars and finger grid line which is benefit to power increase.
- Lower Temperature Coefficient
- Higher Efficiency, allowing for increased power generation
- IP68, IP67 for Long Term Endurance
- Maintain Higher Efficiency in hotter condition
- 27 Years Performance Warranty

CE ISO 9001 : 2015 ISO 14001 : 2015

UTL in 2024-2025

4 Manufacturing Units

29 Years Old Brand

65+ Strong R&D Team

602+ India Wide Service Engineer

1100+ “Shoppes” Franchisee in INDIA

725+ Distributor in INDIA

5546+ Dealers in INDIA

5000000+ Satisfied UTL Consumers

15.4 Bn UTL Turnover

*** As on 31 March 2025**

Manufacturing Energetic Excellence

SOLAR PANEL PLANT, NOIDA, UP

Scan and
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BATTERY PLANT, BAWAL, HARYANA

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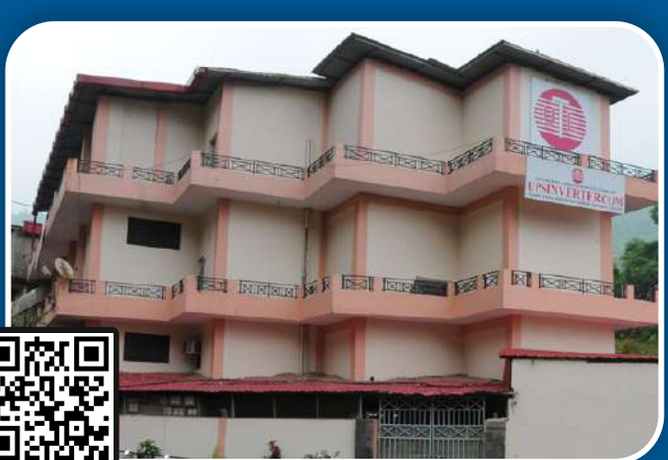
INVERTER PLANT, PARWANOO, HP



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TOPCON SOLAR PANEL

275W - 560W (Bi-Facial)

Model No.	UTL275-72BT	UTL500-132BT	UTL510-132BT	UTL525-132BT	UTL535-132BT	UTL545-132BT	UTL560-132BT
Electrical Characteristics							
Nominal power at STC Pmax (W)	275	500	510	525	535	545	560
Short Circuit Current Isc (A)	13.39	13.30	13.47	13.75	13.80	14.07	14.25
Operating voltage at Pmax Vmp (V)	21.46	39.34	39.54	39.82	40.18	40.47	40.82
Operating current Imp (A)	12.82	12.71	12.90	13.19	13.23	13.47	13.72
Open circuit voltage Voc (V)	25.09	45.91	46.11	46.65	46.85	47.13	47.42
Module efficiency %	20.45	20.86	21.28	22.13	22.33	22.74	23.36
Operating Temperature	-40°C to +80°C						
Maximum system voltage (DC)	1000V	1500V					
Output Tolerance	± 2%						
Fill Factor	81.8%						
Max. Series Fuse Rating	30A	35A					

Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and Module temper ature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

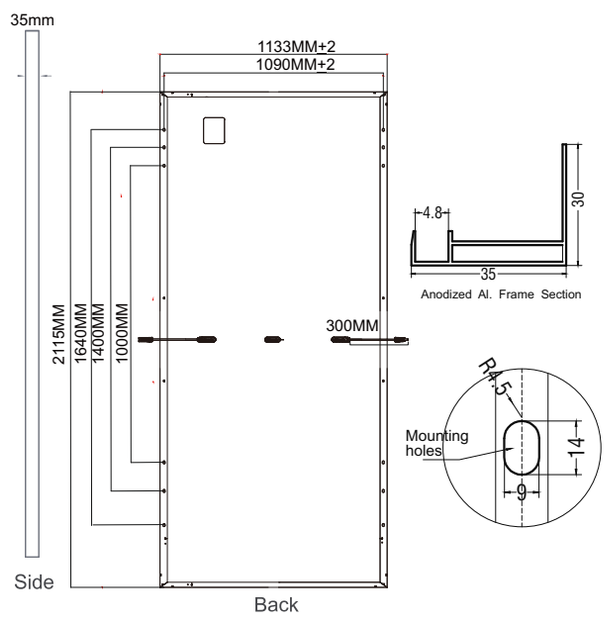
Mechanical Characteristics

Cell type	TOPCON
No of Cell	72 (275W) & 132 in Others
Module Dimension (mm)	1730x775*35 (275W) / 2115x1133x35
Weight (kg)	17 (275W) & 26.5 in Others
Front side Junction Box	Split
Frame	Anodized Aluminum Alloy
Front cover	Low iron, Tempered glass
Connectors	MC4 compatible

Temperature Coeficient

Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.04% /°C
Temperature Coefficient (Pmax	-0.31% /°C

DRAWING (MEASUREMENTS ARE IN MM)

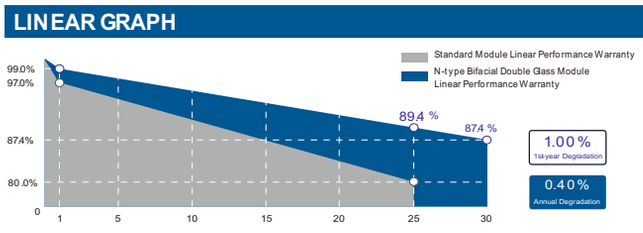


WARRANTY

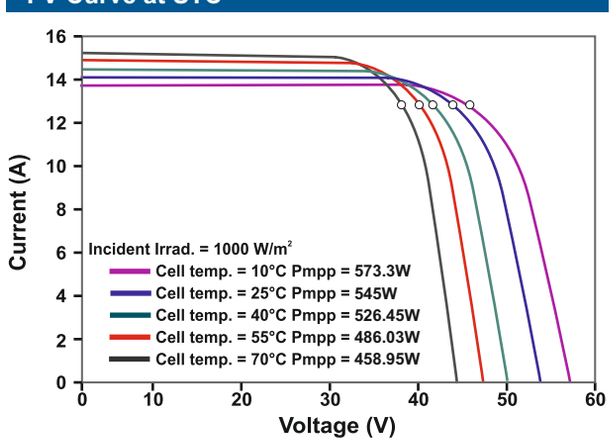
Power Degradation 1% in First year and 0.4%/year from 2 to 27 years

***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%.**

LINEAR GRAPH



I-V Curve at STC



TOPCON SOLAR PANEL

550W - 590W (Dual Glass)

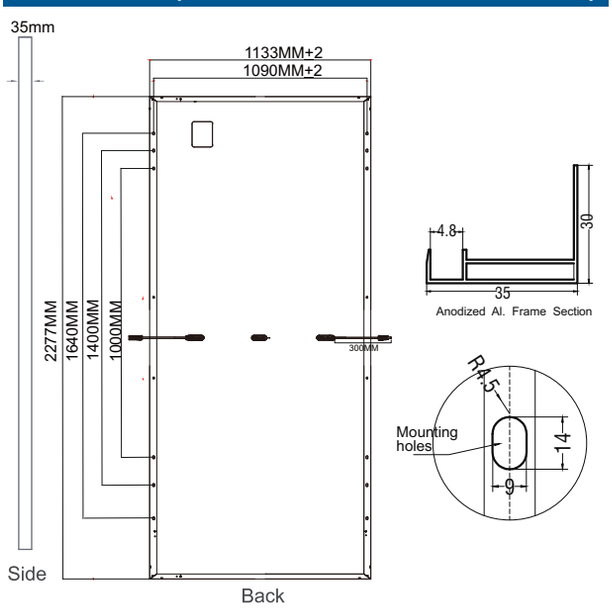
Model No.	UTL550-144GT	UTL560-144GT	UTL570-144GT	UTL575-144GT	UTL580-144GT	UTL585-144GT	UTL590-144GT
Electrical Characteristics							
Nominal power at STC Pmax (W)	550W	560	570	575	580	585	590
Short Circuit Current Isc (A)	13.39	13.54	13.81	13.90	14.02	14.10	14.24
Operating voltage at Pmax Vmp (V)	43.05	43.25	43.80	44.00	43.90	43.93	44.27
Operating current Imp (A)	12.78	12.95	13.01	13.07	13.21	13.32	13.33
Open circuit voltage Voc (V)	50.18	50.47	51.10	51.20	51.25	51.31	51.52
Module efficiency %	21.32	21.71	22.09	22.28	22.48	22.68	22.87
Operating Temperature	-40°C to +80°C						
Maximum system voltage (DC)	1500V						
Output Tolerance	± 2%						
Fill Factor	80%						
Max. Series Fuse Rating	30A						

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5

Mechanical Characteristics	
Cell type	TOPCON
No of Cell	144
Module Dimension (mm)	2277x1133x35
Weight (kg)	32
Front side Junction Box	IP68, 3 DIODE
Frame	Anodized Aluminum Alloy
Front cover	Low iron, Tempered glass
Connectors	MC4 compatible

Temperature Coeficient	
Temperature Coefficient (Voc)	-0.251% /°C
Temperature Coefficient (Isc)	0.0429% /°C
Temperature Coefficient (Pmax	-0.319% /°C

DRAWING (MEASUREMENTS ARE IN MM)

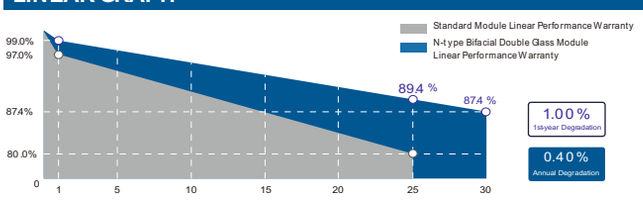


WARRANTY

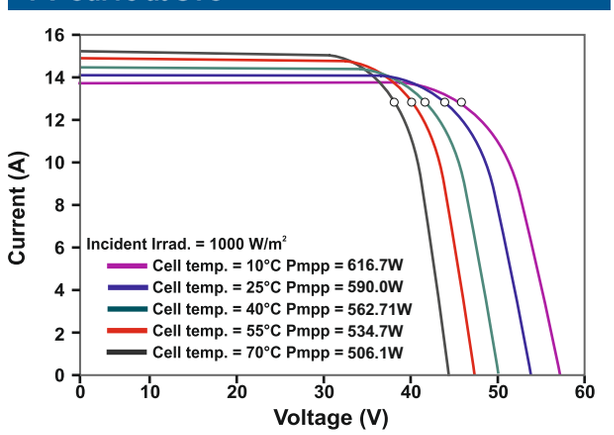
Power Degradation 1% in First year and 0.4%/year from 2 to 27 years

*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%.

LINEAR GRAPH



I-V Curve at STC



UTL SOLAR

MONO PERC TECHNICAL SPECIFICATION

- Half Cut Cells Are More Physically Durable, More Resistant To Cracking Reduce Power Loss increase module efficiency (Mono-Perc efficiency up to 21.7 %)
- 10BB/12BB instead of 5BB/9BB 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
- **27 Years** Performance Warranty

Electrical Characteristics at STC

Maximum Power (Pmax) Mono Perc	40W	55W	110W	150W	225W	240W
Open Circuit Voltage (Voc)	21.7V	21.44V	21.28V	21.7V	21.69V	23.05V
Short Circuit Current (Isc)	2.25A	3.22A	6.47A	8.73A	12.8A	13.35A
Voltage at Maximum Power (Vmp)	18.86V	18.15V	18.08V	18.50V	19.70V	19.2V
Current at Maximum Power (Imp)	2.12A	3.03A	6.09A	8.13A	11.45A	12.60A
Module Efficiency (%)	17.95	16.30	17.98	18.52	18.85	20.10
Operating Temperature	-40°C to +85°C					
Maximum System Voltage (VDC)	600	1000		1500		
Fire Resistance Rating	Type 1(in accordance with UL 1703)/Class C(IEC 61730)					
Maximum Series Fuse Rating	4A	10A	15A	20A	15A	20A

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5

Mechanical Characteristics

Cell type	Mono Perc					
Number of cells	32				64	
Module dimensions (LXWXT) (MM)	405x550x35	435x775x35	795x775x35	1045x775x35	1540x775x35	
Weight (Kg)	3.5	4	6.8	9	12	13
Front cover	Low iron, Tempered glass					
Frame	Anodized aluminum alloy					
Junction box	IP68, IP67, IP65, 3 diodes/2 diodes Split Junction Box					
Connector	MC4 compatible					

Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	46°C±2°C
Temperature Coefficients of Pmax	-0.40%/°C
Temperature Coefficients of Voc	-0.32%/°C
Temperature Coefficients of Isc	0.04%/°C

Warranty

Performance Warranty	Power degradation <2.0 % in first year <0.55 % / year in 2-27 years

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.
- Module size can be changed without any prior notice

UTL SOLAR

MONO PERC TECHNICAL SPECIFICATION

Electrical Characteristics					
Nominal power at STC Pmax (W)	340	365	535	540	555
Short Circuit Current Isc (A)	9.31	9.37	13.71	14.1	14.25
Operating voltage at Pmax Vmp (V)	39.05	41.63	41.61	41.8	41.12
Operating current Imp (A)	8.71	8.77	12.86	13.01	13.5
Open circuit voltage Voc (V)	47.88	46.76	49.45	49.65	50.38
Module efficiency %	20.70	21.0	20.73	20.9	21.7
Operating Temperature	-40°C to +80°C				
Maximum system voltage (DC)	1500V				
Power Tolerance	± 3%				
Fill Factor	77%				
Max. Series Fuse Rating	20A	25A/30A/50A			

STC: Irradiance 1000W/m2, Cell temperature 25°C, AM1.5

Mechanical Characteristics				
Cell type	Mono Perc			
No of Cell	68	72	144	
Module Dimension (mm)	1870x885x35	1980x885x35	2277x1133x35	
Weight (kg)	18	19	24	28
Front side Junction Box	IP68, 3 DIODE			
Frame	Anodized Aluminum Alloy			
Front cover	Low iron, Tempered glass			
Connectors	MC4 compatible			

Temperature Coeficient	
Temperature Coefficient Power (γ)	(-)0.43 %/°C
Temperature Coefficient Voltage (ß)	(-)0.36 %/°C
Temperature Coefficient Current (α)	(+)0.06 %/°C

Warranty	
Positive Power Tolerance	0-3%
Performance Warranty	Power degradation <2.0 % in first year <0.55 % / year in 2-27 years

Note :-

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