

275W - 590W



Half Cut Cells Are More Physically Durable, More Resistant To Cracking Reduce Power Loss increase module efficiency (Topcon up to 23 %)



Higher Efficiency, allowing for increased power generation



Lower degradation rate, ensure consistent power over longer lifespan



IP68, IP67 for Long Term Endurance



16BB instead of 10MBB
Technology decreases the distance
between bus bars and finger grid line
which is benefit to power increase.



Maintain Higher Efficiency in hotter condition



Lower Temperature Coefficient



27 Years Performance Warranty







TECHNICAL DATA	
Electrical Parameter at STC	Mono facial N-Type Module
Module Type	UTL275-72T
Capacity rating – Pmax(Wp)	275
Power Tolerance	±2%
Rated voltage - Vmp(V)	21.46
Rated current - Imp(A)	12.82
Short circuit current - Isc(A)	13.39
Open circuit voltage - Voc(V)	25.09
Module efficiency (%)	20.64

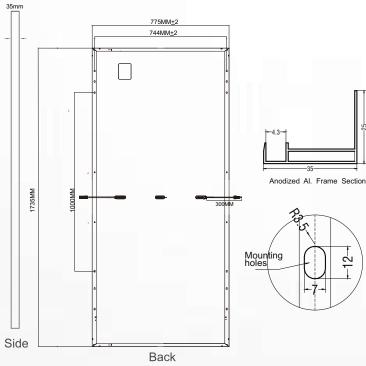
Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and Module temper ature of 25°C. Except Pmax, all other parameters have a tolerance of $\pm 3\%$.

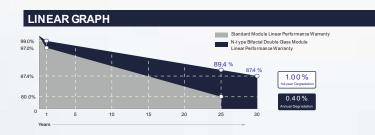
PERM ISSIBLE OPERATING CONDITIONS	
Temper ature range	-40°C to + 85°C
NOCT	45± 2°C
Maximum system voltage	1000 VDC

TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

M ECHANICAL SPEC		
Solar cells	72 pcs TOPCon cell technology, 16BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	2.0 mm, High Transmission,Tempered Glass	
Back	White Backsheet	
Dimensions	(L) 1735 mm x (W) 775 mm x (H) 35 mm	
Weight	~17 Kg	
J-bo x	IP 68 certified, 2 diodes, Split junction bo x	
Mounting Holes (Y)	1000MM	
Mounting Holes (X)	744MM	
Max Fuse Rating	35A	
Cable	4 mm², Solar cable 300 mm length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 Pa, Wind load 2400 Pa	

DRAWING (MEASUREMENTS ARE IN MM)





WARRANTY

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

*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:

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TECHNICAL DATA		
Electrical Parameter at STC	Bifacial N-Type Module	
Module Type	UTL280-72T	
Capacity rating – Pmax(Wp)	280	
Power Tolerance	±2%	
Rated voltage - Vmp(V)	43.21	
Rated current - Imp(A)	6.48	
Short circuit current - Isc(A)	6.77	
Open circuit voltage - Voc(V)	50.45	
Module efficiency (%)	20.82	

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%.

PERM ISSIBLE OPERATING CONDITIONS	
Temper ature range	-40°C to + 85°C
NOCT	45± 2°C
Maximum system voltage	1000 VDC

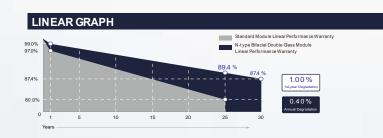
TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

DRAWING (MEASUREMENTS ARE IN MM)

MECHANICAL SPEC	CIFICATION	
Solar cells	72 pcs TOPCon cell technology, 16BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	3.2 mm, High Transmission,Tempered Glass	
Back	White Backsheet	
Dimensions	(L) 1735 mm x (W) 775 mm x (H) 35 mm	
Weight	~17 Kg	
J-bo x	IP 68 certified, 2 diodes, Single box	
Mounting Holes (Y)	1000MM	
Mounting Holes (X)	740MM	
Max Fuse Rating	15A	
Cable	4 mm², Solar cable 900 mm length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 P a, Wind load 2400 P a	

I-V Curve at STC 6 5 Incident Irrad. = 1000 W/m2 Cell temp. = 10°C Pmpp = 290.80W Cell temp. = 25°C Pmpp = 280.44W Cell temp. = 40°C Pmpp = 270.34W Cell temp. = 55°C Pmpp = 249.97W Cell temp. = 70°C Pmpp = 229.34W 0 + 20 30 Voltage (V)

775MM+2 740MM+2 Anodized Al. Frame Section Mounting Side Back



WARRANTY

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

*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%.

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TECHNICAL DATA	
Electrical Parameter at STC	Mono Facial N-Type Module
Module Type	UTL500-132BT
Capacity rating – Pmax(Wp)	500
Power Tolerance	±2%
Rated voltage - Vmp(V)	39.34
Rated current - Imp(A)	12.71
Short circuit current - Isc(A)	13.30
Open circuit voltage - Voc(V)	45.91
Module efficiency (%)	20.86

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%.

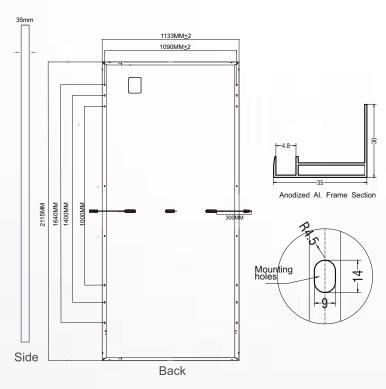
PERM ISSIBLE OPERATING CONDITIONS	
Temper ature range	-40°C to + 85°C
NOCT	45± 2°C
Maximum system voltage	1500 VDC
Hail resistance	Max. diameter of 25 mm with velocity 23 m/ s

TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

MECHANICALSPI	ECIFICATION	
Solar cells	132 pcs TOPCon cell technology, Multi BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass	
Back	PVDF White Backsheet	
Dimensions	(L) 2115 mm x (W) 1133 mm x (H) 35 mm	
Weight	~26.50 Kg	
J-bo x	IP 68 certified, 3 diodes, Split junction bo x	
Mounting Holes (Y)	1000,1640,1400 MM	
Mounting Holes (X)	1090MM	
Max Fuse Rating	35A	
Cable	4 mm², Solar cable 300 mm length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 P a, Wind load 2400 P a	

I-V Curve at STC 12 10 8 Incident Irrad. = 1000 W/m² 6 Cell temp. = 10°C Pmpp = 526.0W Cell temp. = 25°C Pmpp = 500W 4 Cell temp. = 40°C Pmpp = 473.81W Cell temp. = 55°C Pmpp = 445.90W Cell temp. = 70°C Pmpp = 416.47W 30 Voltage (V)

DRAWING (MEASUREMENTS ARE IN MM)





WARRANTY

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

*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%.

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TECHNICAL DATA	
Electrical Parameter at STC	Bifacial N-Type Module
Module Type	UTL545-132BT
Capacity rating – Pmax(Wp)	545
Power Tolerance	±2%
Rated voltage - Vmp(V)	40.46
Rated current - Imp(A)	13.47
Short circuit current - Isc(A)	14.07
Open circuit voltage - Voc(V)	47.13
Module efficiency (%)	22.74

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%.

PERM ISSIBLE OPERATING CONDITIONS	
Temper ature range -40°C to + 85°C	
NOCT	45± 2°C
Maximum system voltage	1500 VDC
Hail resistance	Max. diameter of 25 mm with velocity 23 m/ s

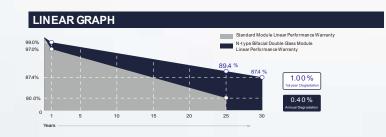
TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

DRAWING (MEASUREMENTS ARE IN MM)

MECHANICALSPI	ECIFICATION	
Solar cells	132 pcs TOPCon cell technology, Multi BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass	
Back	Transparent Backsheet	
Dimensions	(L) 2115 mm x (W) 1133 mm x (H) 35 mm	
Weight	~26.50 Kg	
J-bo x	IP 68 certified, 3 diodes, Split junction bo x	
Mounting Holes (Y)	1000,1640,1400 MM	
Mounting Holes (X)	1090MM	
Max Fuse Rating	35A	
Cable	4 mm², Solar cable 300 mm length or Customized length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 P a, Wind load 2400 P a	

I-V Curve at STC 14 12 10 8 Incident Irrad. = 1000 W/m² 6 Cell temp. = 10°C Pmpp = 573.3W Cell temp. = 25°C Pmpp = 545W 4 Cell temp. = 40°C Pmpp = 526.45W Cell temp. = 55°C Pmpp = 486.03W 2 Cell temp. = 70°C Pmpp = 458.95W 20 30 Voltage (V)

1133MM+2 1090MM+2 Anodized Al. Frame Section 1640MM 1400MM Mounting



Back

WARRANTY

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

*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:

Side

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TECHNICAL DATA	
Electrical Parameter at STC	Bifacial N-Type Module
Module Type	UTL590-144GT
Capacity rating – Pmax(Wp)	590
Power Tolerance	±2%
Rated voltage - Vmp(V)	44.27
Rated current - Imp(A)	13.33
Short circuit current - Isc(A)	14.24
Open circuit voltage - Voc(V)	51.52
Module efficiency (%)	22.87

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%.

PERM ISSIBLE OPERATING CONDITIONS	
Temper ature range -40°C to + 85°C	
NOCT	45± 2°C
Maximum system voltage	1500 VDC
Hail resistance	Max. diameter of 25 mm with velocity 23 m/ s

TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

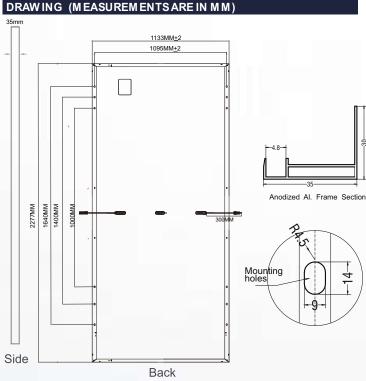
ELECTRICAL CHARACTERISTICS WITH 10% RARE SIDE POWER GAIN#		
Capacity rating – Pmax(Wp)	649	
Short circuit current - Isc(A)	15.66	
Open circuit voltage - Voc(V)	56.67	
Rated current - Imp(A)	14.66	
Rated voltage - Vmp(V)	48.69	

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and re flectivity o f ground. Bi-Faciality Factor: 80 ± 5 %

MECHANICALS		
Solar cells	144 pcs TOPCon cell technology, Multi BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass	
Back Glass	2.0 mm, Heat Strengthened Glass	
Dimensions	(L) 2277 mm x (W) 1133 mm x (H) 35 mm"	
Weight	~32.5 Kg	
J-bo x	IP 68 certified, 3 diodes, Split junction bo x	
Series Fuse Rating	30 A	
Cable	4 mm², Solar cable 400 mm/1400mm length or Customized length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 P a, Wind load 2400 P a	

I-V Curve at STC 12 10 8 Incident Irrad. = 1000 W/m² 6 Cell temp. = 10°C Pmpp = 573.5W Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W 0 + 40 20 30 Voltage (V)

PACKAGING CONFIGURATION**	
No of pallet	20
No of module, 40ft HC container	720
Number of Modules per Pallet	28





*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:

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TECHNICAL DATA	
Electrical Parameter at STC	Bifacial N-Type Module
Module Type	UTL510-132BT
Capacity rating – Pmax(Wp)	510
Power Tolerance	±2%
Rated voltage - Vmp(V)	39.54
Rated current - Imp(A)	12.90
Short circuit current - Isc(A)	13.47
Open circuit voltage - Voc(V)	46.11
Module efficiency (%)	21.28

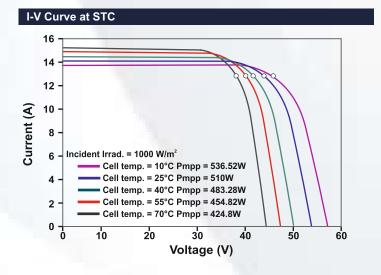
Under Standard Test Conditions (STC) of irradiance 1000 W/m², spectrum AM 1.5 and Module temper ature of 25°C. Except Pmax, all other parameters have a tolerance of ±3%.

PERM ISSIBLE OPERATING CONDITIONS	
Temper ature range -40°C to +85°C	
NOCT	45± 2°C
Maximum system voltage	1500 VDC
Hail resistance	Max. diameter of 25 mm with velocity 23 m/ s

TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

DRAWING (MEASUREMENTS ARE IN MM)

MECHANICALSF	PECIFICATION	
Solar cells	132 pcs TOPCon cell technology, Multi BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass	
Back	Transparent Backsheet	
Dimensions	(L) 2115 mm x (W) 1133 mm x (H) 35 mm	
Weight	~26.50 Kg	
J-bo x	IP 68 certified, 3 diodes, Split junction bo x	
Mounting Holes (Y)	1000,1640,1400 MM	
Mounting Holes (X)	1090MM	
Max Fuse Rating	35A	
Cable	4 mm², Solar cable 300 mm/1400mm length or Customized length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 P a, Wind load 2400 P a	



1133MM+2 1090MM+2 Anodized Al. Frame Section 1640MM 1400MM Mounting



Back

WARRANTY

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

*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%.

Side

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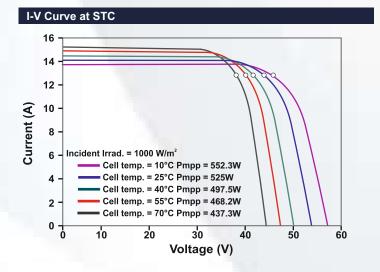
TECHNICAL DATA		
Electrical Parameter at STC	Bifacial N-Type Module	
Module Type	UTL525-132BT	
Capacity rating – Pmax(Wp)	525	
Power Tolerance	±2%	
Rated voltage - Vmp(V)	39.82	
Rated current - Imp(A)	13.19	
Short circuit current - Isc(A)	13.75	
Open circuit voltage - Voc(V)	46.65	
Module efficiency (%)	21.90	

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%.

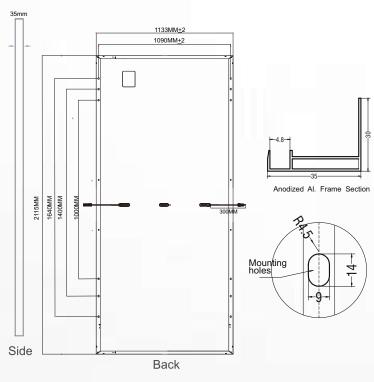
PERMISSIBLE OPERATING CONDITIONS	
Temper ature range -40°C to + 85°C	
NOCT	45± 2°C
Maximum system voltage	1500 VDC
Hail resistance	Max. diameter of 25 mm with velocity 23 m/ s

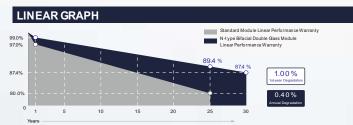
TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

M ECHANICAL SPECIFICATION		
Solar cells	132 pcs TOPCon cell technology, Multi BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	3.2 mm, High Transmission, AR Coated Tempered Glass	
Back	Transparent Backsheet	
Dimensions	(L) 2115 mm x (W) 1133 mm x (H) 35 mm	
Weight	~26.50 Kg	
J-bo x	IP 68 certified, 3 diodes, Split junction bo x	
Mounting Holes (Y)	1000,1640,1400 MM	
Mounting Holes (X)	1090MM	
Max Fuse Rating	35A	
Cable	4 mm², Solar cable 300 mm/1400mm length or Customized length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 Pa, Wind load 2400 Pa	



DRAWING (MEASUREMENTS ARE IN MM)





WARRANTY

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

*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%.

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TECHNICAL DATA		
Electrical Parameter at STC	Bifacial N-Type Module	
Module Type	UTL575-144GT	
Capacity rating – Pmax(Wp)	575	
Power Tolerance	±2%	
Rated voltage - Vmp(V)	44.0	
Rated current - Imp(A)	13.07	
Short circuit current - Isc(A)	13.90	
Open circuit voltage - Voc(V)	51.20	
Module efficiency (%)	22.28	

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%.

PERM ISSIBLE OPERATING CONDITIONS		
Temper ature range	-40°C to + 85°C	
NOCT	45± 2°C	
Maximum system voltage	1500 VDC	
Hail resistance	Max. diameter of 25 mm with velocity 23 m/ s	

TEM PERATURE COEFFICIENTS (TC)	
Temperature Coefficient (Voc)	-0.26% /°C
Temperature Coefficient (Isc)	0.045% /°C
Temperature Coefficient (Pmax	-0.32% /°C

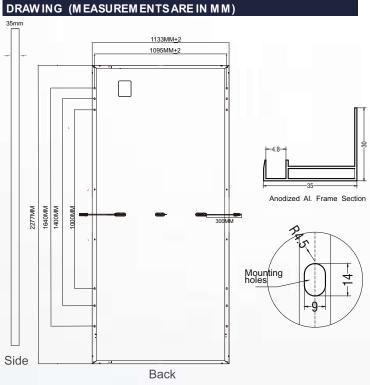
ELECTRICAL CHARACTERISTICS WITH 10% RARE SIDE POWER GAIN#		
Capacity rating – Pmax(Wp)	632	
Short circuit current - Isc(A)	15.29	
Open circuit voltage - Voc(V)	56.32	
Rated current - Imp(A)	14.37	
Rated voltage - Vmp(V)	48.40	

Additional power gain from rear side compared to power of front side at STC depends on mounting structure (height, tilt angle etc.) and re flectivity o f ground. Bi-Faciality Factor: 80 ± 5 %

MECHANICALS	PECIFICATION	
Solar cells	144 pcs TOPCon cell technology, Multi BB	
Encapsulation	PID & UV resistance	
Frame	Silver Anodized Aluminium Alloy	
Front Glass	2.0 mm, High Transmission, AR Coated Semi Tempered Glass	
Back Glass	2.0 mm, Heat Strengthened Glass	
Dimensions	(L) 2277 mm x (W) 1133 mm x (H) 35 mm"	
Weight	~32.5 Kg	
J-bo x	IP 68 certified, 3 diodes, Split junction bo x	
Series Fuse Rating	30 A	
Cable	4 mm², Solar cable 400 mm/1400mm length or Customized length	
Connectors	MC4 Type	
Application Class	ClassA	
Electrical Safety	Class II	
Fire Safety	Class C (Type 1)	
Surface load	Snow load 5400 P a, Wind load 2400 P a	

I-V Curve at STC 12 10 8 Incident Irrad. = 1000 W/m² 6 Cell temp. = 10°C Pmpp = 573.5W Cell temp. = 25°C Pmpp = 545.7W Cell temp. = 40°C Pmpp = 517.2W Cell temp. = 55°C Pmpp = 487.9W Cell temp. = 70°C Pmpp = 457.9W 20 30 40 Voltage (V)

PACKAGING CONFIGURATION##	
No of pallet	20
No of module, 40ft HC container	720
Number of Modules per Pallet	28





*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%.

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New Delhi-110015

Manufacturing Unit 1: Khasra No. 182, Vill-Naryal, Parwanoo, Himachal Pradesh-173220, India

Manufacturing Unit 2: Plot No 51-52, Sector - Ecotech 1 Extension 1, Greater Noida, Distt Gautam Budh Nagar,

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