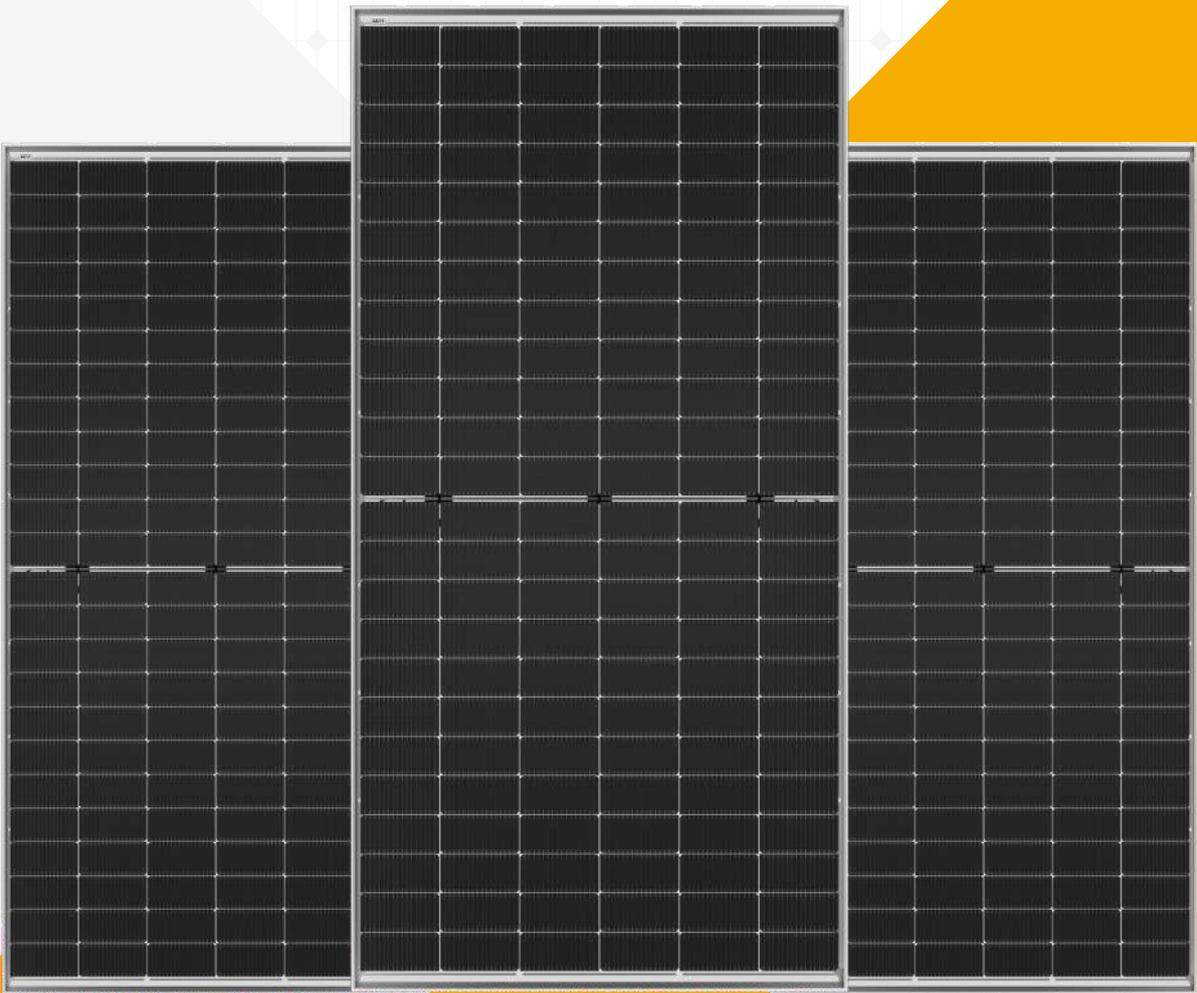




Walking with **Light**,
Benefiting **Future Generation**



About Asot Solar

ASOT Solar is a reputable solar panel manufacturer in India, committed to delivering high-performance, sustainable energy solutions. Equipped with cutting-edge technology, our state-of-the-art facility boasts a production capacity of 600 MW, with plans to expand to 2.2 GW by 2026-27. Based in Gujarat, India, ASOT Solar is dedicated to promoting a greener, carbon-free future for our customers, partners, and communities.

Our Vision

To empower India's sustainable future by becoming a globally respected solar module manufacturer that strengthens the nation's energy independence, protects the environment, and uplifts the Indian renewable ecosystem.

Our Mission

To manufacture reliable, high-efficiency solar PV modules that support India's renewable energy targets and reduce carbon emissions. We are committed to strengthening the Indian solar ecosystem through indigenous manufacturing, quality excellence, and long-term partnerships.

Our Goal

We aim to create environmental impact, generate skilled employment, and build a sustainable, self-reliant solar ecosystem for the nation.

Our Core Value



Commitment
Honesty in All Modules



Quality
Delivering Promised Results



Transparency
Open Communication With Customers



Relation
Long-term Relationships With Clients



Life-long Learning
Continuous Improvement



Innovation
Embracing New Ideas



Ethics
Prioritizing Customer Benefit



Respect
Valuing Employees, Partners and Customers



Expert Service
Dedicated to Delivering The Best Solutions



MONO CRYSTALLINE

530 Wp - 555 Wp

MONO PERC 10BB



Product Warranty on Materials and Workmanship 15 Years*



Linear Performance Warranty for 30 Years*

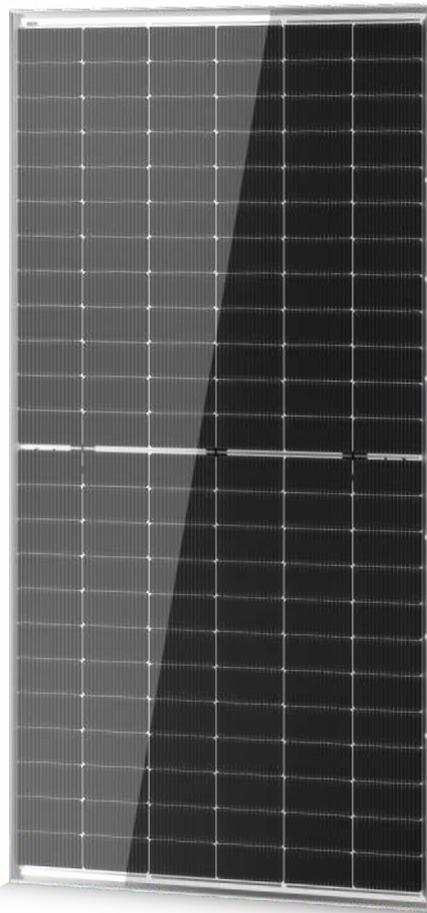
Extra Power / High Saving



Extra Life With Up to 30% Additional Power



Double-Sided Power Generation



Excellent Anti-LeTID & Anti-PID Performance



Lower Temperature Coefficient



Lower LCOE & System Cost



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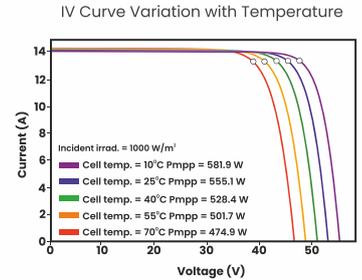
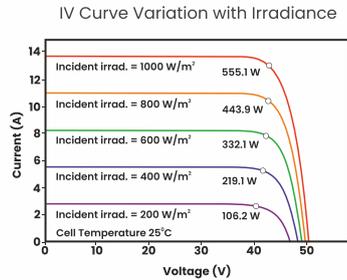
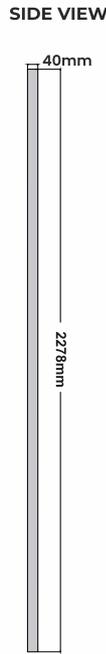
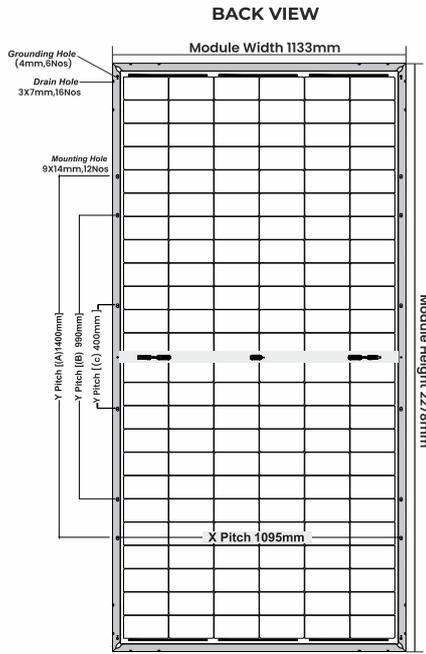
Management Certificates

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

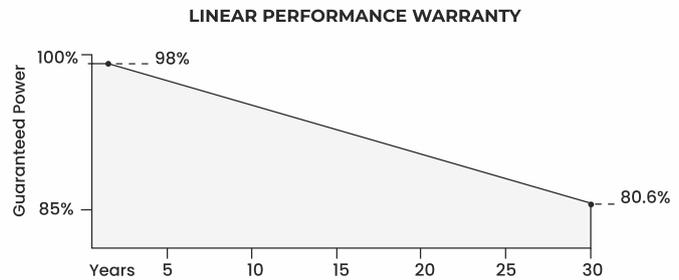
Product Certificates

IS 14286/IEC 61215
IS/IEC 61730/1
IS/IEC 61730/2

ELECTRICAL CHARACTERISTICS*	ASPLB144-530		ASPLB144-535		ASPLB144-540		ASPLB144-545		ASPLB144-550		ASPLB144-555	
	STC	NOCT										
Nominal Maximum Power (Pmax)	530 W	398 W	535 W	401 W	540 W	405 W	545 W	409 W	550 W	412 W	555 W	416 W
Optimum Operating Voltage (Vmp)	41.58V	39.71V	41.86V	39.90V	41.86V	39.07V	42.01V	39.23V	42.14V	39.35V	42.28V	39.48V
Optimum Operating Current (Imp)	12.84A	10.02A	12.91A	10.05A	12.96A	10.36A	12.98A	10.41A	13.06A	10.48A	13.13A	10.53A
Open Circuit Voltage (Voc)	49.37V	46.10V	49.58V	46.31V	49.78V	46.49V	49.97V	46.80V	50.06V	46.94V	50.20V	47.07V
Short Circuit Current (Isc)	13.41A	10.78A	13.47A	10.88A	13.53A	10.90A	13.59A	10.95A	13.65A	11.00A	13.71A	11.05A
Module Efficiency	20.54%		20.74%		20.94%		21.13%		21.32%		21.52%	



IV Curves for Front-Side Illumination of 555 Wp Panel



BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 75% ± 10%]

Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)

5%	Nominal Maximum Power (Pmax)	557 W	562 W	567 W	573 W	578 W	583 W
	Module Short Circuit Current / Efficiency	14.08 A / 21.57 %	14.14 A / 21.78 %	14.21 A / 21.99 %	14.27 A / 22.18 %	14.33 A / 22.39 %	14.39 A / 22.59 %
10%	Nominal Maximum Power (Pmax)	583 W	589 W	594 W	600 W	605 W	611 W
	Module Short Circuit Current / Efficiency	14.75 A / 22.59 %	14.82 A / 22.81 %	14.88 A / 23.03 %	14.95 A / 23.24 %	15.02 A / 23.46 %	15.08 A / 23.69 %
25%	Nominal Maximum Power (Pmax)	663 W	669 W	676 W	682 W	688 W	694 W
	Module Short Circuit Current / Efficiency	16.76 A / 25.68 %	16.84 A / 25.93 %	16.91 A / 26.17 %	16.99 A / 26.41 %	17.06 A / 26.65 %	17.14 A / 26.89 %

MECHANICAL SPECIFICATIONS

Dimensions	2278 (L) × 1133 (W) × 40 (T) mm
Weight (kg)	28.6
Cell Type / No. of Cells	144 Half-cut Mono PERC Bifacial Solar Cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	ARC coated Low Iron Tempered Glass (3.2 mm thick)
Encapsulate	Ethylene Vinyl Acetate (EVA) – PID resistant and UV resistant
Back Cover	Corona treated PVDF Fluoro-polymer based transparent Backsheet
Junction Box	25A Split type (3 nos. with individual bypass diode) – IP68 Weatherproof
Bypass Diode	40 A, 45 V, 200°C max. junction temperature
Cable	4 sq. mm, 300 mm length (Custom cable length available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa – Front; 2400 Pa – Back (as per IEC & UL)
Mounting Holes Pitch (Y) – mm	[A] 1400, [B] 1100, [C] 400
Mounting Holes Pitch (X) – mm	1095

MAXIMUM OPERATING CONDITIONS

Operating Temperature :	-40°C to +85°C
Maximum System Voltage :	1500V
Maximum Series Fuse Rating :	25 A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0284%/°C
Voltage β (Voc) :	-0.2444%/°C
Power γ (Pmax) :	-0.3210%/°C

STACKING STANDARD 19FT 20FT 40FT

No. of Modules per Container :	192	288	528
No. of Pallets per Container :	08	12	22
No. of Modules per Pallet/Weight :	24 Nos / 730 Kg		
Pallet Dimensions in mm :	2320 (L) × 1000 (W) × 1275 (H)		

Caution : Please read safety and installation instructions before using the product. **Warranty** : Linear performance warranty for 30 years, with degradation up to 2% in 1st year and 0.6%/year from year 2 to year 30. Please read ASOT SOLAR warranty documents thoroughly. **Disclaimer** : Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. ASOTE SOLUTIONS PVT. LTD., reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.

GANDiV

N-TYPE TOPCON 16BB
570 Wp - 595 Wp

BIFACIAL(GLASS TO BACK SHEET)

THE STRENGTH OF A **WARRIOR**, THE POWER OF THE **SUN!**



12
Years
Product Warranty on Materials
and Workmanship 12 Years*



30
Years
Linear Performance
Warranty for 30 Years*



Extra Power / High Saving



Extra Life With Up to
30% Additional Power



Double-Sided
Power Generation



Excellent Anti-LeTID
& Anti-PID Performance



Lower Temperature
Coefficient



Lower LCOE
& System Cost



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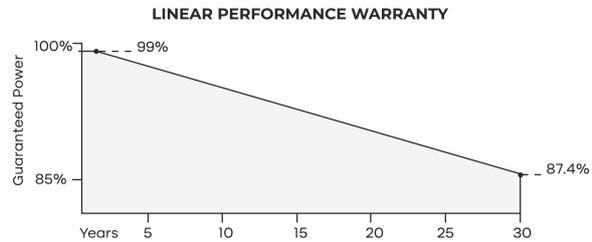
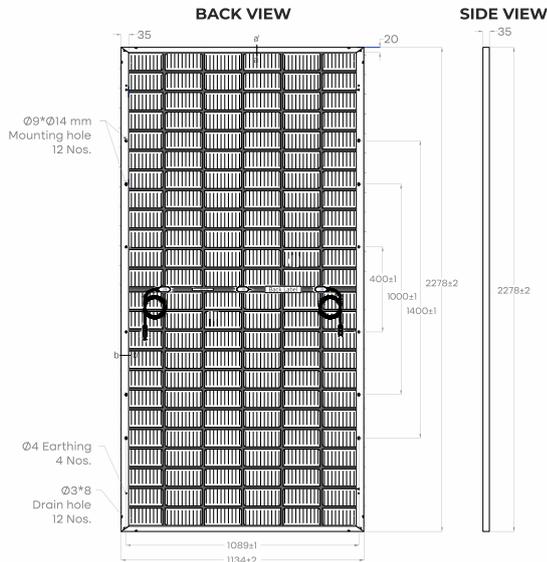
Management
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ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

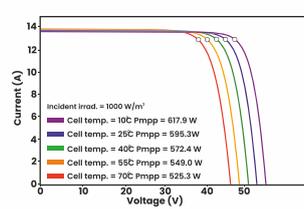
Product
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IS 14286/IEC 61215
IS/IEC 61730/1
IS/IEC 61730/2

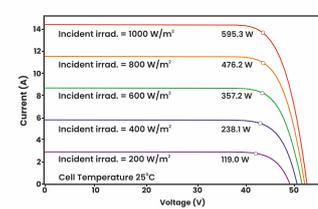
ELECTRICAL CHARACTERISTICS*	ASPL16B144-570		ASPL16B144-575		ASPL16B144-580		ASPL16B144-585		ASPL16B144-590		ASPL16B144-595	
	STC	NOCT										
Nominal Maximum Power (Pmax)	570	424	575	428	580	431	585	435	590	439	595	443
Optimum Operating Voltage (Vmp)	44.25	40.74	44.38	40.86	44.51	40.98	44.64	41.10	44.77	41.22	44.90	41.34
Optimum Operating Current (Imp)	12.89	10.41	12.96	10.47	13.03	10.52	13.11	10.59	13.18	10.64	13.26	10.71
Open Circuit Voltage (Voc)	51.55	47.47	51.68	47.59	51.81	47.71	51.94	47.83	52.07	47.95	52.20	48.07
Short Circuit Current (Isc)	13.85	11.18	13.92	11.24	13.99	11.30	14.06	11.35	14.13	11.41	14.20	11.47
Module Efficiency	22.08%		22.27%		22.45%		22.65%		22.84%		23.05%	



IV Curve Variation with Temperature



IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 595 Wp Panel

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 80% ± 10%]

Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)

5%	Capacity rating - Pmax(Wp)	599	604	609	614	620	625
	Rated Voltage - Vmp(V)	44.25	44.38	44.51	44.64	44.77	44.90
	Rated Current - Imp(A)	13.53	13.61	13.68	13.77	13.84	13.92
	Open Circuit Voltage - Voc(V)	51.55	51.68	51.81	51.94	52.07	52.20
	Short Circuit Current - Isc(A)	14.54	14.62	14.69	14.76	14.84	14.91
	Module Efficiency (%)	23.18%	23.38%	23.58%	23.79%	23.98%	24.20%
10%	Capacity rating - Pmax(Wp)	627	633	638	644	649	655
	Rated Voltage - Vmp(V)	44.25	44.38	44.51	44.64	44.77	44.90
	Rated Current - Imp(A)	14.18	14.26	14.34	14.42	14.50	14.59
	Open Circuit Voltage - Voc(V)	51.55	51.68	51.81	51.94	52.07	52.20
	Short Circuit Current - Isc(A)	15.24	15.31	15.39	15.47	15.54	15.62
	Module Efficiency (%)	24.29%	24.49%	24.70%	24.92%	25.13%	25.35%

MECHANICAL SPECIFICATIONS

Dimensions	2278(L) x 1134(W) x 35(T)
Weight(kg)	28kg
Cell type / No Of Cell	144 Half-cut N-type TOPCon Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron semi-Tempered AR coated Glass (3.2 mm thick)
Encapsulate	PID resistant and UV resistant Polymeric Film
Back Cover	PVDF base UV protected backsheet
Junction Box	30A Split Junction Box (3 nos. with individual Bypass Diode) - Weatherproof (IP68)
Bypass Diode	60 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 300 mm length (Customised cable length available on request)
Connectors	Mc4 Type
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa-Front; 2400 Pa-Back (as per IEC & UL)
Mounting Holes Pitch (Y)-mm	[A] 1880, [B] 1140, (Holes at 400 mm Y-pitch for tracker can be provided on customer request)
Mounting Holes Pitch (X)-mm	1089

MAXIMUM OPERATING CONDITIONS

Operating Temperature :	-40°C to +85°C
Maximum System Voltage :	1500V
Maximum Series Fuse Rating :	30 A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0471%/°C
Voltage β (Voc) :	-0.3021%/°C
Power γ (Pmax) :	-0.3315%/°C

PACKING STANDARD 19FT 20FT 40FT

No. of Modules per Container :	224	280	616
No. of Pallets per Container :	08	10	22
No. of Modules per Pallet/Weight :	28 Nos/835 Kg		
Pallet Dimensions in mm :	2290(L) X 1000(W) X 1227(H)		

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: ±3%. Average value of NOCT: 45.00 ± 2 °C]

Caution : Please read safety and installation instructions before using the product. **Warranty :** Linear performance warranty for 30 years, with degradation up to 1% in 1st year and 0.4 %/year from year 2 to year 30. Please read ASOTE SOLUTIONS warranty documents thoroughly. **Disclaimer :** Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. ASOTE SOLUTIONS PVT.LTD. reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.

GANDiV ^{PLUS}

N-TYPE TOPCON 16BB
570 Wp - 595 Wp
BIFACIAL (GLASS To GLASS)

The Strength Of A **WARRIOR**, The Power of The **SUN!**



15
Years
Product Warranty on Materials
and Workmanship 15 Years*



30
Years
Linear Performance
Warranty for 30 Years*



Extra Power / High Saving



**Extra Life With Up to
30% Additional Power**



**Double-Sided
Power Generation**



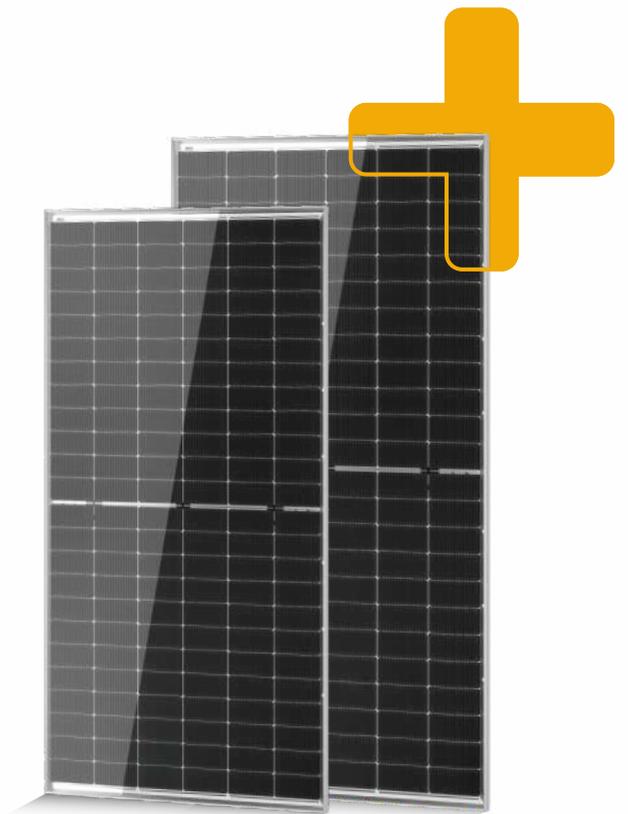
**Excellent Anti-LeTID
& Anti-PID Performance**



**Lower Temperature
Coefficient**



**Lower LCOE
& System Cost**



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Management
Certificates

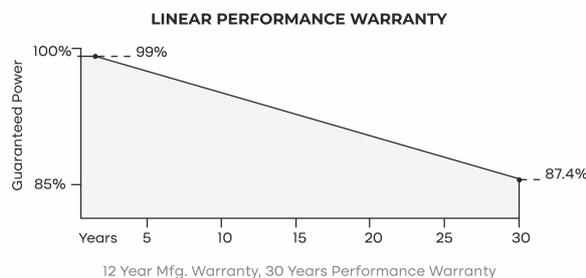
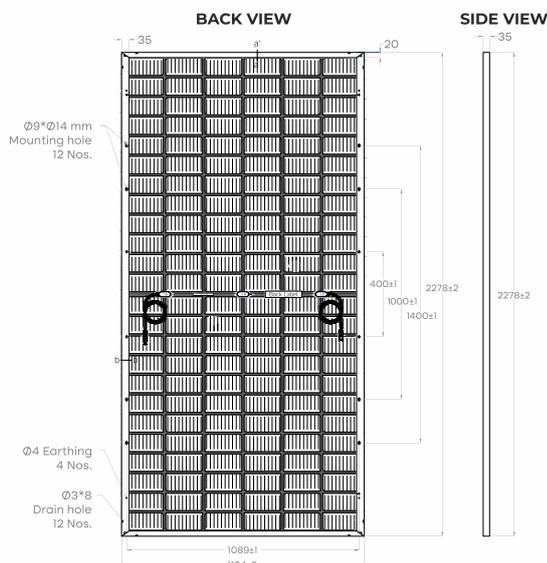
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ISO 45001:2018

Product
Certificates

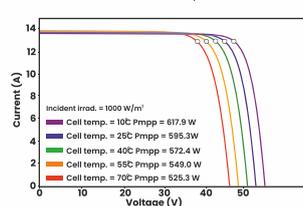
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IS/IEC 61730/1
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Technical Data

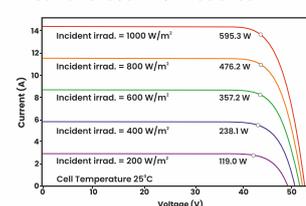
ELECTRICAL CHARACTERISTICS*	ASPL16B144-570		ASPL16B144-575		ASPL16B144-580		ASPL16B144-585		ASPL16B144-590		ASPL16B144-595	
	STC	NOCT										
Nominal Maximum Power (Pmax)	570	424	575	428	580	431	585	435	590	439	595	443
Optimum Operating Voltage (Vmp)	44.25	40.74	44.38	40.86	44.51	40.98	44.64	41.10	44.77	41.22	44.90	41.34
Optimum Operating Current (Imp)	12.89	10.41	12.96	10.47	13.03	10.52	13.11	10.59	13.18	10.64	13.26	10.71
Open Circuit Voltage (Voc)	51.55	47.47	51.68	47.59	51.81	47.71	51.94	47.83	52.07	47.95	52.20	48.07
Short Circuit Current (Isc)	13.85	11.18	13.92	11.24	13.99	11.30	14.06	11.35	14.13	11.41	14.20	11.47
Module Efficiency	22.08%		22.27%		22.45%		22.65%		22.84%		23.05%	



IV Curve Variation with Temperature



IV Curve Variation with Irradiance



IV Curves for Front-Side Illumination of 595 Wp Panel

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 80% ± 10%]

Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)

5%	Capacity rating - Pmax(Wp)	599	604	609	614	620	625
	Rated Voltage - Vmp(V)	44.25	44.38	44.51	44.64	44.77	44.90
	Rated Current - Imp(A)	13.53	13.61	13.68	13.77	13.84	13.92
	Open Circuit Voltage - Voc(V)	51.55	51.68	51.81	51.94	52.07	52.20
	Short Circuit Current - Isc(A)	14.54	14.62	14.69	14.76	14.84	14.91
	Module Efficiency (%)	23.18%	23.38%	23.58%	23.79%	23.98%	24.20%
10%	Capacity rating - Pmax(Wp)	627	633	638	644	649	655
	Rated Voltage - Vmp(V)	44.25	44.38	44.51	44.64	44.77	44.90
	Rated Current - Imp(A)	14.18	14.26	14.34	14.42	14.50	14.59
	Open Circuit Voltage - Voc(V)	51.55	51.68	51.81	51.94	52.07	52.20
	Short Circuit Current - Isc(A)	15.24	15.31	15.39	15.47	15.54	15.62
	Module Efficiency (%)	24.29%	24.48%	24.70%	24.92%	25.13%	25.35%

MECHANICAL SPECIFICATIONS

Dimensions	2278(L) x 1134(W) x 35(T)
Weight(kg)	33kg
Cell type / No Of Cell	144 Half-cut N-type TOPCon Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron semi-Tempered AR coated Glass (2 mm thick)
Encapsulate	PID resistant and UV resistant Polymeric Film
Back Cover	Low Iron semi-Tempered Glass (2 mm thick)
Junction Box	30A Split Junction Box (3 nos. with individual Bypass Diode) – Weatherproof (IP68)
Bypass Diode	60 A, 45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 300 mm length (Customised cable length available on request)
Connectors	Mc4 Type
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa-Front; 2400 Pa-Back (as per IEC & UL)
Mounting Holes Pitch (Y)-mm	[A] 1880, [B] 1140, (Holes at 400 mm Y-pitch for tracker can be provided on customer request)
Mounting Holes Pitch (X)-mm	1089

MAXIMUM OPERATING CONDITIONS

Operating Temperature :	-40°C to +85°C
Maximum System Voltage :	1500V
Maximum Series Fuse Rating :	30 A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0471%/°C
Voltage β (Voc) :	-0.3021%/°C
Power γ (Pmax) :	-0.3315%/°C

PACKING STANDARD 19FT 20FT 40FT

No. of Modules per Container :	224	280	616
No. of Pallets per Container :	08	10	22
No. of Modules per Pallet/Weight :	28 Nos/835 Kg		
Pallet Dimensions in mm :	2290(L) X 1000(W) X 1227(H)		

ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: ±3%. Average value of NOCT: 45.00 ± 2 °C]

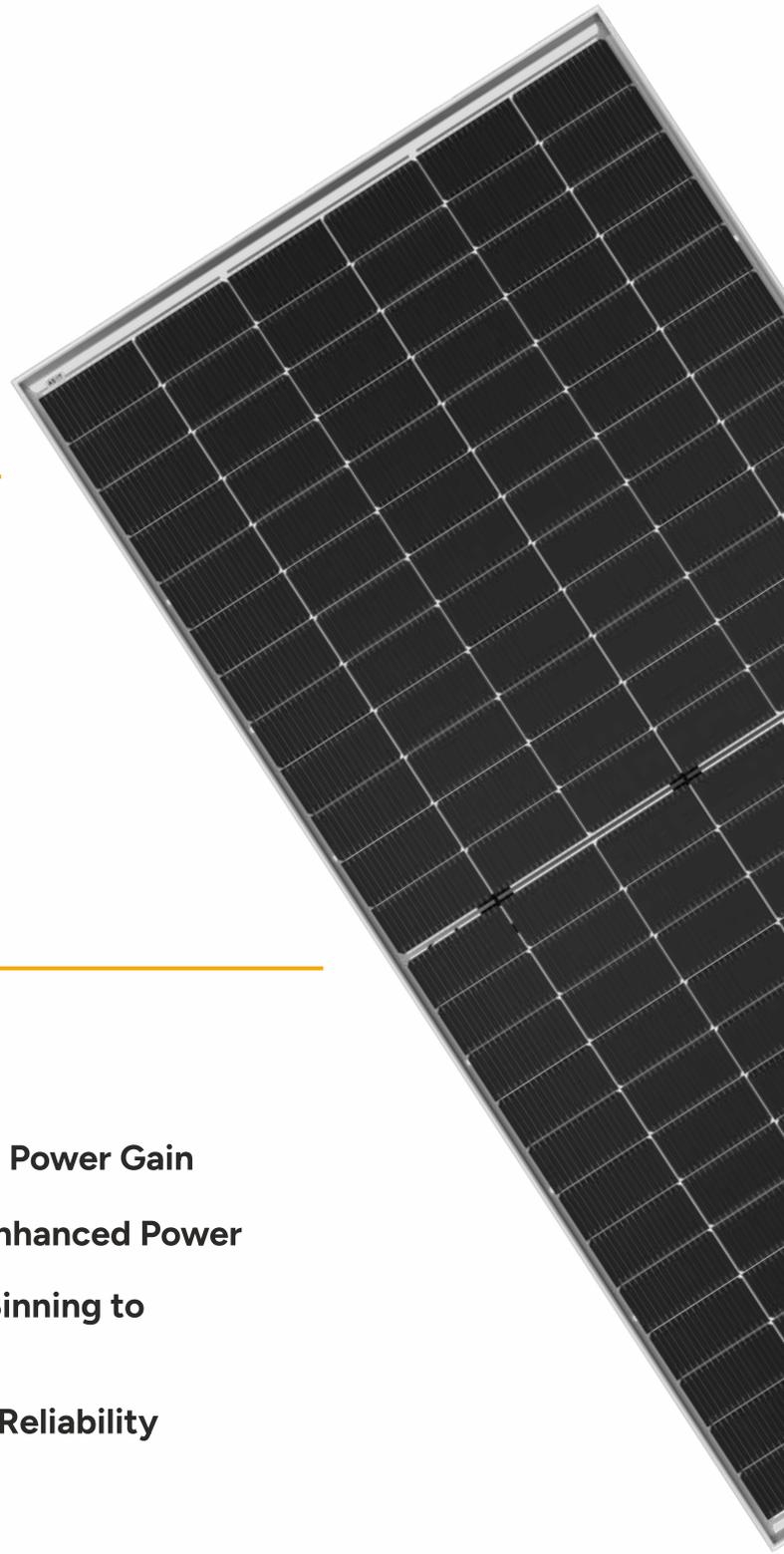
Caution : Please read safety and installation instructions before using the product. **Warranty :** Linear performance warranty for 30 years, with degradation up to 1% in 1st year and 0.4 %/year from year 2 to year 30. Please read ASOTE SOLUTIONS warranty documents thoroughly. **Disclaimer :** Specifications included in the datasheet are subject to change without prior notice owing to continuous innovation in the Product Development and R&D Activities. ASOTE SOLUTIONS PVT.LTD. reserves the right to make any adjustment to the information described here. Dataset contained in this specification do not form a representative of a single module data. @T&C Apply.

PINAK

610 Wp - 630 Wp

N-TYPE TOPCON 16BB

BIFACIAL (GLASS to GLASS)



Product Warranty on Materials
and Workmanship 15 Years*



Linear Performance
Warranty for 30 Years*

PRODUCT | KEY FEATURES

-  Superior Module Efficiency with Bifacial Power Gain
-  Anti-Reflective (AR) Coated Glass for Enhanced Power
-  Positive Power Tolerance with Current Binning to Minimize Mismatch Losses
-  ASOT Solar Modules ensure Long-Term Reliability

BIS APPROVED



R-72011754



ALMM
LISTED

Management
Certificates

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Product
Certificates

IS 14286/IEC 61215
IS/IEC 61730/1
IS/IEC 61730/2

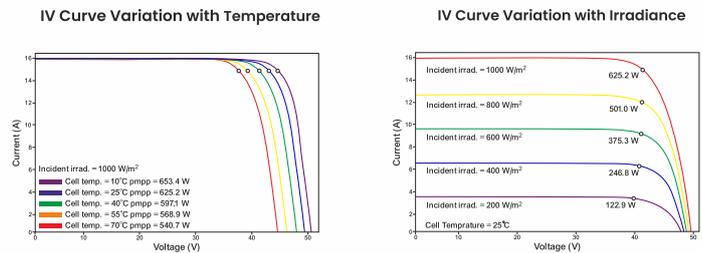
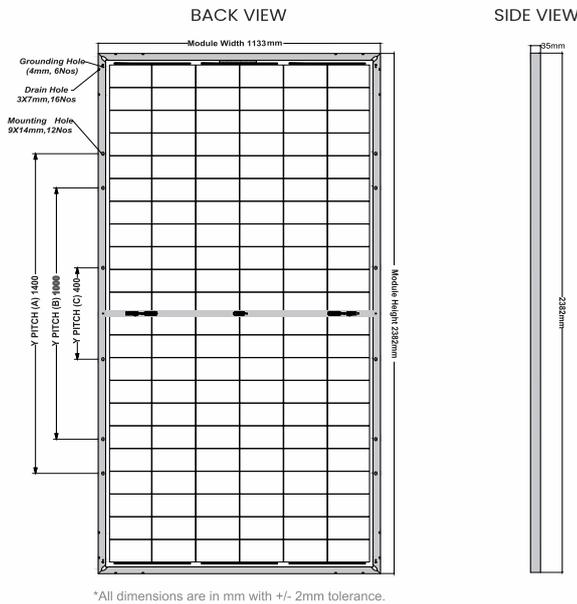
ELECTRICAL PERFORMANCE [Note: Power tolerance: 0 ~ +4.99 W. Power measurement uncertainty: < ±3%. Average value of NOCT: 45.08 ± 2 °C]

ELECTRICAL CHARACTERISTICS*	ASPL16BB132-610		ASPL16BB132-615		ASPL16BB132-620		ASPL16BB132-625		ASPL16BB132-630	
	STC	NOCT								
Nominal Maximum Power (Pmax)	610 W	457 W	615 W	461 W	620 W	465 W	625 W	468 W	630 W	476 W
Optimum Operating Voltage (Vmp)	40.95 V	38.45 V	41.18 V	38.67 V	41.37 V	38.85 V	41.52 V	38.99 V	41.52 V	38.88 V
Optimum Operating Current (Imp)	14.95 A	11.90 A	14.95 A	11.93 A	15.00 A	11.97 A	15.06 A	12.02 A	15.10 A	12.17 A
Open Circuit Voltage (Voc)	48.54 V	45.77 V	48.68 V	45.91 V	48.92 V	46.13 V	49.18 V	46.38 V	49.50 V	47.03 V
Short Circuit Current (Isc)	15.66 A	12.62 A	15.669 A	12.65 A	15.72 A	12.67 A	15.73 A	12.68 A	16.12 A	12.99 A
Module Efficiency	22.60%		22.79 %		22.97 %		23.16 %		23.32%	

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 80% ± 05%]

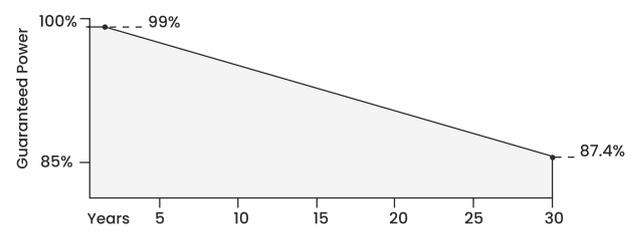
[Note: The bifacial gain depends on the power plant design and site conditions. Electrical component ratings should be selected as per actual Bifacial gain at site (module currents indicated below)]

5%	Nominal Maximum Power (Pmax)	640 W	645 W	651 W	656 W
	Module Short Circuit Current / Efficiency	16.44 A / 23.73 %	16.48 A / 23.93 %	16.50 A / 24.12 %	16.52 A / 24.32 %
10%	Nominal Maximum Power (Pmax)	671 W	676 W	682 W	687 W
	Module Short Circuit Current / Efficiency	17.23 A / 24.86 %	17.26 A / 25.07 %	17.29 A / 25.27 %	17.30 A / 25.47 %
25%	Nominal Maximum Power (Pmax)	762 W	768 W	775 W	781 W
	Module Short Circuit Current / Efficiency	19.58 A / 28.25 %	19.62 A / 28.48 %	19.65 A / 28.72 %	19.66 A / 28.95 %



IV Curves for Front-Side Illumination of 625 Wp Panel

LINEAR PERFORMANCE WARRANTY



MECHANICAL SPECIFICATIONS

Dimensions	2382(L) x 1133(W) x 35(T) in mm
Weight(kg)	34.5
Cell type / No Of Cell	132 Half-cut N-type TOPCon Bifacial Solar cells
Frame	Anodized Aluminum Alloy (6005, Temper T6, Silver colour)
Front Cover	Low Iron semi-Tempered AR coated Glass (2 mm thick)
Encapsulate	PID resistant and UV resistant Polymeric Film
Back Cover	Low Iron semi-Tempered Glass (2 mm thick)
Junction Box	35A Split Junction Box (3 nos. with individual Bypass Diode) - Weatherproof (IP68)
Bypass Diode	45 V, 200 °C max. junction temperature
Cable	4 sq. mm, 300 mm length (Customised cable length available on request)
Connectors	MC4 compatible (MC4 original available on request)
Application Class Rating	Class A
Safety Class Rating	Class II
Mechanical Load Test	5400 Pa-Front; 2400 Pa-Back (as per IEC & UL)
Mounting Holes Pitch (Y)-mm	[A] 1400, [B] 1000, [C] 400
Mounting Holes Pitch (X)-mm	1095

MAXIMUM OPERATING CONDITIONS

Operating Temperature:	-40°C to +85°C
Maximum System Voltage:	1500V
Maximum Series Fuse Rating:	35 A

TEMPERATURE COEFFICIENTS

Current α (Isc) :	0.0350%/°C
Voltage β (Voc) :	-0.2277%/°C
Power γ (Pmax) :	-0.2827%/°C

STACKING STANDARD 20FT 40FT

No. of Modules per Container:	279	620
No. of Pallets per Container:	09	20
No. of Modules per Pallet/Weight:	31 Nos/1130 Kg	
Pallet Dimensions in mm :	2420(L)*1130(W)*1275(H)	

Caution : Please read all safety and installation instructions before using the product.
Warranty : Linear performance warranty for 30 years, with degradation up to 1% in the 1st year and 0.4%/year from year 2 to year 30. Please read ASOT Solar warranty documents thoroughly.
Disclaimer : Specifications mentioned in this datasheet are subject to change without prior notice due to continuous product innovation and R&D activities. Asote Solutions Pvt. Ltd. reserves the right to make adjustments to the information described here. The dataset contained in this specification does not represent a single module's performance.

PINAK EDGE

690 Wp - 715 Wp

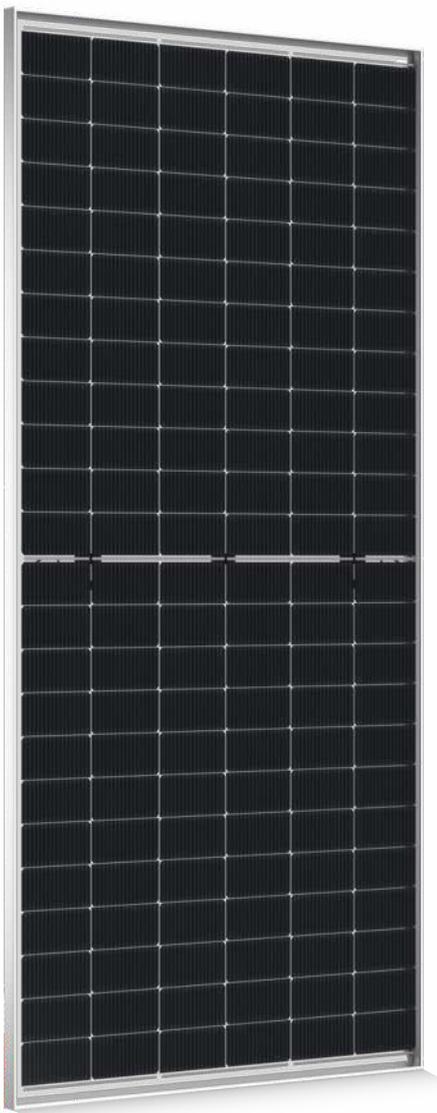
N-TYPE TOPCON 16BB
BIFACIAL (GLASS to GLASS)



Product Warranty on Materials and Workmanship 15 Years*



Linear Performance Warranty for 30 Years*



PRODUCT | KEY FEATURES



LOWER LCOE

- Lower balance of systems cost
- Improved value proposition of the product with competitive ROI



0% NEGATIVE POWER TOLERANCE

- Positive power tolerance of upto 0 ~ 4.99Wp
- Module current binning radically reduces string mismatch losses



IMPROVED LONGEVITY

- Excellent anti-PID performance via optimized process and materials control
- Lower susceptibility to LID & LeTID



PREMIUM PERFORMANCE PARAMETERS

- N-TYPE solar cell upto 80% bifaciality, brings higher energy yield from rear side
- Lower temperature coefficient minimizing generation losses at high temperature



SUPERIOR HAIL TEST PERFORMANCE

- Ø 45mm hail test passed from third party laboratory with impact velocity up to 27m/s

BIS APPROVED



R-72011754



Management Certificates

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Product Certificates

IS 14286/IEC 61215
IS/IEC 61730/1
IS/IEC 61730/2

ELECTRICAL PARAMETERS | STC^{1,2}

Peak Power P _{max} (Wp)	690	695	700	705	710	715
Maximum Voltage V _{mpp} (V)	39.7	39.9	40.1	40.2	40.4	40.6
Maximum Current I _{mp} (A)	17.38	17.43	17.48	17.53	17.58	17.63
Open Circuit Voltage V _{oc} (V)	47.3	47.5	47.6	47.8	48.0	48.1
Short Circuit Current I _{sc} (A)	18.29	18.36	18.43	18.5	18.57	18.64
Module Efficiency (%)	22.21	22.37	22.53	22.70	22.86	23.02

1) Stc: 1000 W/M² Irradiance, 25°C Cell Temperature, Am1.5g Spectrum According To En 60904-3 | 2) Tolerance Of Rating At Stc (P_{mp}/I_{sc}/V_{oc}) [%] : 0-3/±5/±5 | Electrical Measurement Uncertainty Is Within ± 2%

ELECTRICAL PARAMETERS | BNPI^{4,5}

Peak Power P _{max} (Wp)	765	770	776	781	787	792
Maximum Voltage V _{mpp} (V)	39.7	39.9	40.1	40.2	40.4	40.6
Maximum Current I _{mp} (A)	19.26	19.31	19.37	19.42	19.48	19.53
Open Circuit Voltage V _{oc} (V)	47.3	47.5	47.6	47.8	48	48.1
Short Circuit Current I _{sc} (A)	20.27	20.34	20.42	20.50	20.58	20.65

4) Bnpi: 1000 W/m² + φ.135, Bifacility Coeff. (β) At Bnpi P_{max} I_{sc} Is 75±5% & For V_{oc} Is 99±10% , Am 1.5, 25°C | 5) Tolerance Of Rating At Bnpi (P_{mp}/I_{sc}/V_{oc}) [%] : 0-3/±5/±5

ELECTRICAL PARAMETERS | NOCT³

Peak Power P _{max} (Wp)	519.5	523.4	527.3	531.2	535.1	539
Maximum Voltage V _{mpp} (V)	37.1	37.2	37.3	37.4	37.5	37.6
Maximum Current I _{mp} (A)	14.03	14.08	14.13	14.18	14.23	14.28
Open Circuit Voltage V _{oc} (V)	44.4	44.6	44.8	45	45.2	45.4
Short Circuit Current I _{sc} (A)	14.78	14.83	14.88	14.93	14.98	15.03

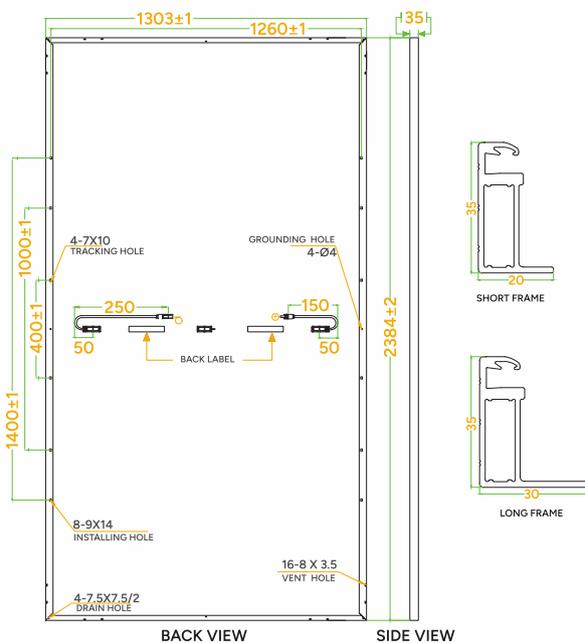
3) Noct Irradiance 800 W/M², Ambient Temperature 20°C, Wind Speed 1 M/sec

TEMPERATURE COEFFICIENTS (Tc)

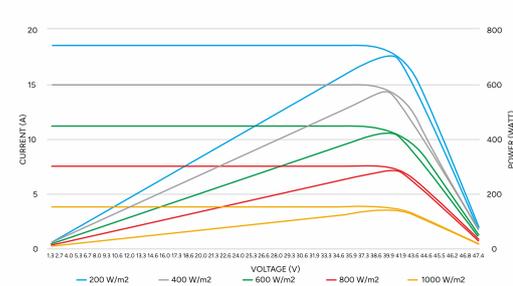
PERMISSIBLE OPERATING CONDITIONS

Tc of Open Circuit Voltage (β)	-0.26%/°C
Tc of Short Circuit Current (α)	0.046%/°C
Tc of Power (γ)	-0.30%/°C
Maximum System Voltage	1500V
NOCT	45°C ± 2°C
Temperature Range	-40°C to + 85°C

DIMENSIONS IN MM



TYPICAL I-V CURVES⁶



6) Average Relative Efficiency Reduction Of 5% At 200 W/m² According To En 60904-1

PERFORMANCE WARRANTY



MECHANICAL DATA

Length x Width x Height	2384 X 1303 X 35 mm (93.86 x 51.30 x 1.38 inches)
Weight	39.5 Kg (87.08 lbs)
Junction Box	IP 68, Split Junction Box with individual bypass diodes
Cable & Connectors ^{***}	200 mm (+ve terminal) and 300 mm (-ve terminal) length cables, MC4 Compatible/MC4 Connectors
Application Class	Class A (Safety class II)
Superstrate ^{***}	2.0 mm (0.098 inches) high transmission ARC Semi-tempered glass (low iron content)
Cells	66 (132 half-cells) N-TYPE bifacial solar cells
Substrate	2.0 mm (0.098 inches) high transmission heat strengthened glass/mesh glass ^{***} (low iron content)
Frame	Anodized aluminium/Alloy steel frame ^{***}
Mechanical Load Test	5400 Pa (Snow load), 2400 Pa (Wind load)
Cell Encapsulant	EPE/EVA
Maximum Series Fuse Rating	30 A
Hail Test	Ø 45mm Impact Velocity up to 27m/s

WARRANTY

Product Warranty ^{**}	15 years
Performance Warranty ^{**}	Linear Power Warranty for 30 years with 1% for 1st year degradation and 0.4% from year 2 to year 30

PACKAGING INFORMATION

Quantity /Pallet	31
Pallets/Container	17
Quantity/Container	527

^{*}All (^{*}) certifications under progress. | ^{**}Refer to ASOT Solar's warranty document for terms and conditions. | #400mm (15.75 inches), 1000mm (39.37 inches), 1200mm (47.24 inches) cable lengths are also available. | ##Anti-glare Glass is also available. | *As per applicable product. | #*With additional cost & lead time subject to availability. | STC: Standard Testing Condition. | BNPI: Bifacial Nameplate Irradiance. | NOCT: Nominal Operating Cell Temperature.

CAUTION: Read safety and installation manual before using the product. Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order. ASOT Solar and all its accompanying logos are trademarks of Asote Solutions Pvt. Ltd. registered in India.

N Type TOPCon

Asot Solar, our advanced N-Type TOPCon solar technology delivers exceptional efficiency, surpassing 23.32%. Engineered for peak performance, our panels offer reliable, high-output energy solutions tailored to both residential and commercial needs. With cutting-edge innovation and durability at the core, Asot Solar sets a new benchmark in solar panel efficiency.



Product Certification



IS / IEC 61730 / 1



IS 14286 / IEC 61215



IS / IEC 61730 / 2

ALMM
LISTED

Approved List of
Models and Manufacturers



Bureau of
Indian Standards



Underwriters
Laboratories



International
Electrotechnical Commission



World Class Testing Facility Provided

At Asot Solar, our world-class testing facility ensures every panel meets top industry standards. Using state-of-the-art technology, we simulate real-world conditions to assess performance and durability under extreme temperatures, humidity, and other environmental factors. Beyond quality.



Cutting-Edge Production Facilities





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