

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

GANDIV⁺

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



15 Years Product Warranty
On Materials And Workmanship*



30 Years Warranty for
Linear Performance*



Extra Power / High Saving



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



**Double-Sided
Power Generation**



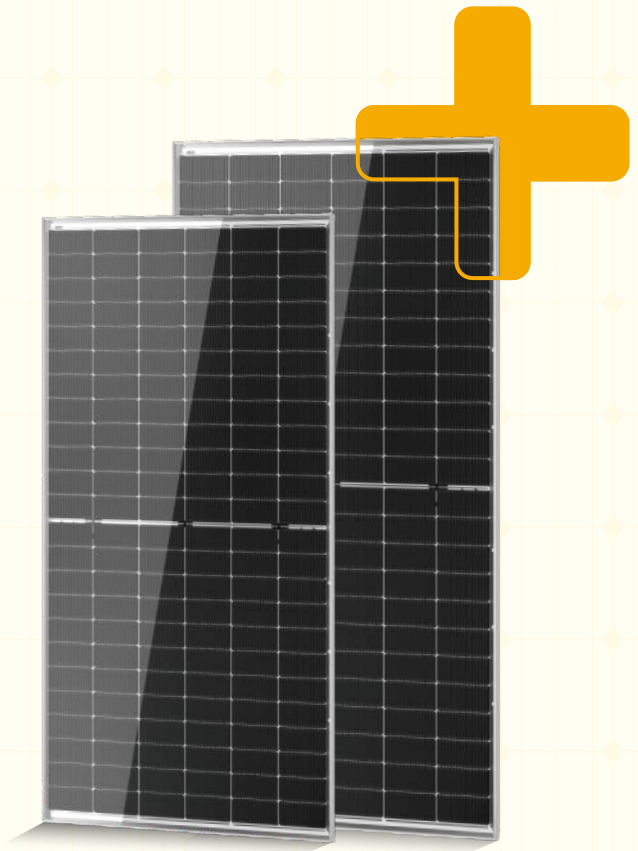
**Excellent Anti-LeTID
& Anti-PID Performance**



**Lower Temperature
Coefficient**



**Lower LCOE
& System Cost**



BIS APPROVED



R-72011754



Management
Certificates

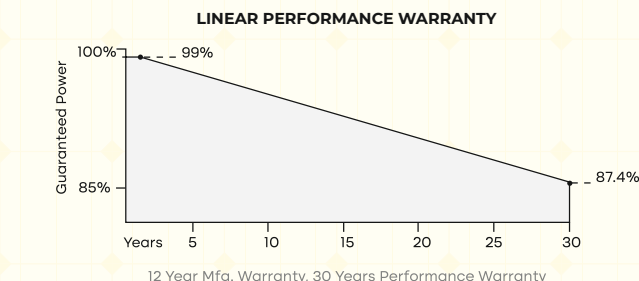
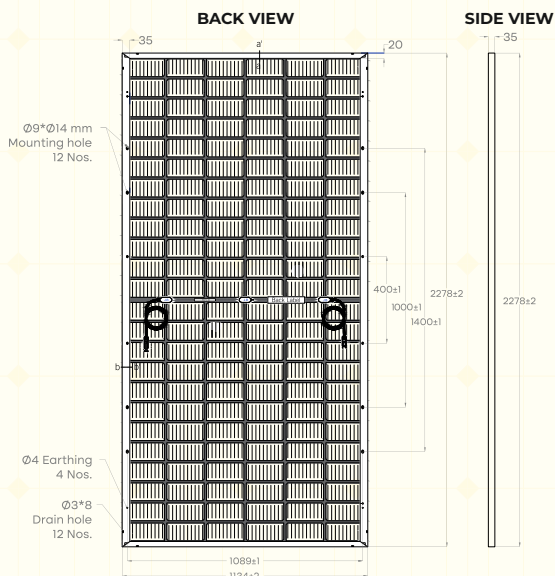
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Product
Certificates

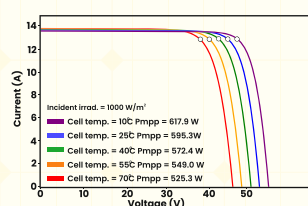
IS 14286/IEC 61215
IS/IEC 61730/1
IS/IEC 61730/2

TECHNICAL DATA

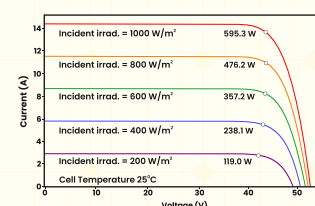
ELECTRICAL CHARACTERISTICS*	ASPL16B144-570		ASPL16B144-575		ASPL16B144-580		ASPL16B144-585		ASPL16B144-590		ASPL16B144-595	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	570	424	575	428	580	431	585	435	590	439	595	443
Optimum Operating Voltage (Vmp)	44.25	40.74	44.38	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)	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.