

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



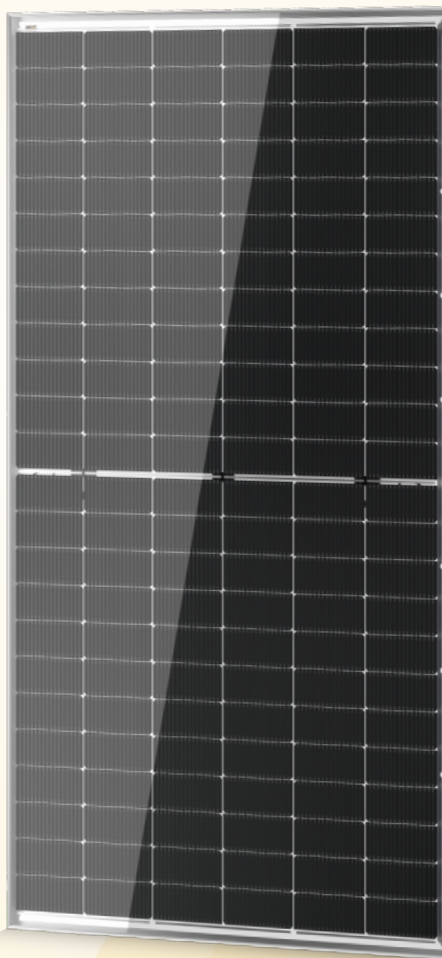
Excellent
Anti-LeTID &
Anti-PID
Performance



Lower
Temperature
Coefficient



Lower LCOE
& System Cost



BIS APPROVED



R-72011754



ALMM
LISTED

Management
Certificates

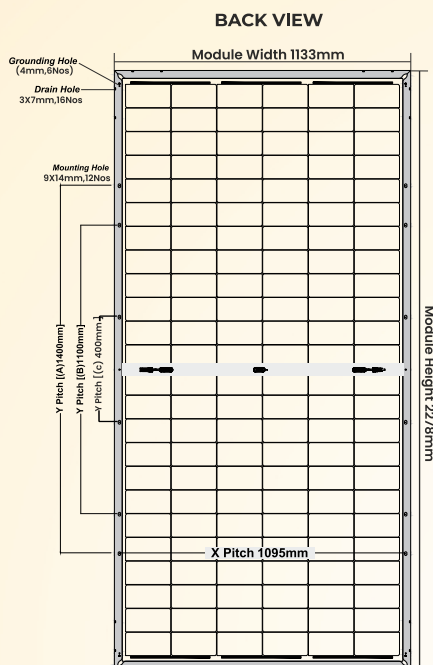
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

Product
Certificates

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

TECHNICAL DATA

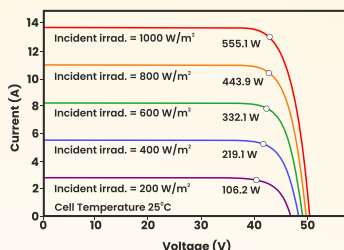
ELECTRICAL CHARACTERISTICS*	ASPLB144-530		ASPLB144-535		ASPLB144-540		ASPLB144-545		ASPLB144-550		ASPLB144-555	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Nominal Maximum Power (Pmax)	530 W	398 W	535 W	401 W	540 W	405 W	545 W	409 W	550 W	412 W	555 W	416 W
Optimum Operating Voltage (Vmp)	41.58V	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%	



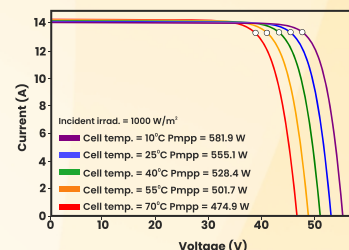
SIDE VIEW



IV Curve Variation with Irradiance

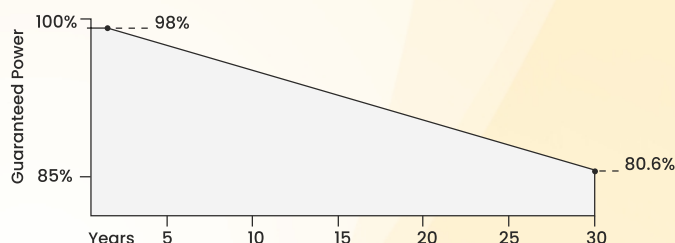


IV Curve Variation with Temperature



IV Curves for Front-Side Illumination of 555 Wp Panel

LINEAR PERFORMANCE WARRANTY



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.