ELITE SERIES N TOPCON TECHNOLOGY

BiN-08-560 to BiN-08-580 Framed Dual Glass Bifacial module



Highest reliability & enhanced crack tolerance MBB module



Sustain heavy snow & wind loads (5400 Pa & 2400 Pa)



Best in class thermal coefficients



Highest commercial gains, lower LCOE

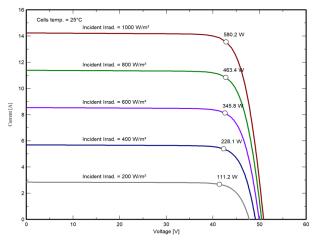


Better weak light performance

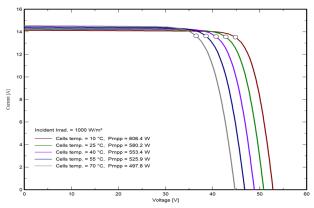


Excellent PID resistance

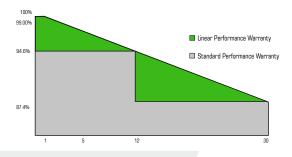
I-V VARIATION WITH IRRADIANCE

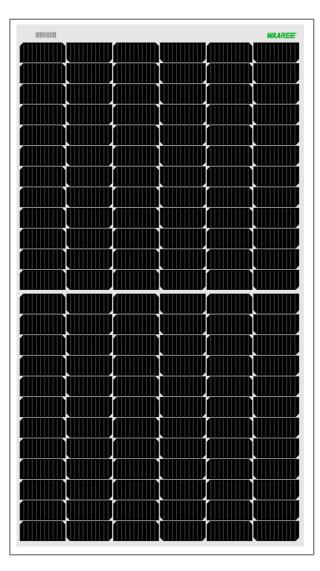


I-V VARIATION WITH TEMPERATURE



The Graphs are for reference purpose only. Please consult Waaree technical team for further clarifications.







IEC 61215, IEC 61730 UL 61730-1, UL 61730-2



ELITE SERIES N TOPCON TECHNOLOGY



30 A

BiN-08-560 to BiN-08-580 Framed Dual Glass Bifacial module

ELECTRICAL CHARACTERISTICS

Pmax (W)		Vmp (V)		Imp (A)		lsc (A)		Voc (V)		Module Eff. (%)
STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
560	423.4	42.40	39.73	13.21	10.65	13.99	11.27	49.96	47.71	21.75
565	427.1	42.55	39.87	13.28	10.70	14.06	11.33	50.11	47.85	21.95
570	430.9	42.70	40.01	13.35	10.76	14.13	11.39	50.26	48.00	22.14
575	434.7	42.84	40.14	13.42	10.82	14.20	11.44	50.40	48.13	22.33
580	438.5	42.98	40.27	13.50	10.88	14.28	11.51	50.54	48.26	22.53
	STC 560 565 570 575	STC NOCT 560 423.4 565 427.1 570 430.9 575 434.7	STC NOCT STC 560 423.4 42.40 565 427.1 42.55 570 430.9 42.70 575 434.7 42.84	STC NOCT STC NOCT 560 423.4 42.40 39.73 565 427.1 42.55 39.87 570 430.9 42.70 40.01 575 434.7 42.84 40.14	STC NOCT STC NOCT STC 560 423.4 42.40 39.73 13.21 565 427.1 42.55 39.87 13.28 570 430.9 42.70 40.01 13.35 575 434.7 42.84 40.14 13.42	STC NOCT STC NOCT STC NOCT STC NOCT 560 423.4 42.40 39.73 13.21 10.65 565 427.1 42.55 39.87 13.28 10.70 570 430.9 42.70 40.01 13.35 10.76 575 434.7 42.84 40.14 13.42 10.82	STC NOCT STC NOCT STC NOCT STC STC 560 423.4 42.40 39.73 13.21 10.65 13.99 565 427.1 42.55 39.87 13.28 10.70 14.06 570 430.9 42.70 40.01 13.35 10.76 14.13 575 434.7 42.84 40.14 13.42 10.82 14.20	STC NOCT ST	STC NOCT STC NOCT STC NOCT STC STC<	STC NOCT ST

*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%.

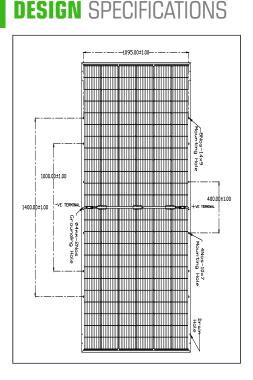
System Voltage 1500 V

Series Fuse Rating

I-FACIAL OUTPUT - BACKSIDE POWER GAIN*

		BiN-08-560	BiN-08-565	BiN-08-570	BiN-08-575	BiN-08-580
15%	Power Output (W)	644	650	655	661	667
	Module Efficiency (%)	25.01%	25.24%	25.46%	25.69%	25.91%
20%	Power Output (W)	672	678	684	690	696
	Module Efficiency (%)	26.10%	26.34%	26.57%	26.81%	27.04%
25%	Power Output (W)	700	706	712	719	725
	Module Efficiency (%)	27.19%	27.43%	27.67%	27.92%	28.16%
30% -	Power Output (W)	728	734	741	747	754
	Module Efficiency (%)	28.27%	28.53%	28.78%	29.04%	29.29%

*The bifacial gains are dependant on the power plant design and location



THERMAL CHARACTERISTICS

Temperature coefficient of Current (lsc), α (%/°C)	0.046
Temperature coefficient of Voltage (Voc), ß (%/°C)	-0.26
Temperature coefficient of Power (Pm), γ (%/°C)	-0.31
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2272 mm (L) x 1133 mm (W) x 35 mm (T)
Weight	32.5 kgs
Solar Cells per Module (Units) / Arrangement	144 cells / (12x6 12x6)
Solar Cell Type & Size	TOPCon N-type Mono Bifacial,91x182mm
Front / Back Glass (Material / Thickness)	2 mm Low Iron ARC semi-tempered glass
Encapsulate	PID Free & UV Resistant
Junction Box (Protection degree / Material)	IP68 / Weatherproof PPO
Cable & Connector (Protection degree / Type)	IP68 rated / MC4 compatible
Cable cross - section & Length	4 mm ² & 500mm
Frame	Anodized Aluminium Alloy

Waaree Energies Ltd. is amongst the top Solar Energy Companies and has the country's largest Solar PV Module manufacturing capacity of 12 GW. In addition, it is committed to provide top notch EPC services, project development, rooftop solutions, solar water pumps and also in an Independent Power Producer. Waaree has its presence in over 350 + locations nationally and 68 countries globally. 12 Years Product Warranty • 30 Years Power Output Warranty

• The electrical data given here is for reference purpose only.

- Please confirm your exact requirements with the sales representative while placing your order.
- Refer installation Manual instructions & Waaree warranty statement for terms & conditions.

• Waaree Reserves the right to change the specifications without prior notice.