ELITE SERIES N TOPCON TECHNOLOGY

WSMT-415 to WSMT-440





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

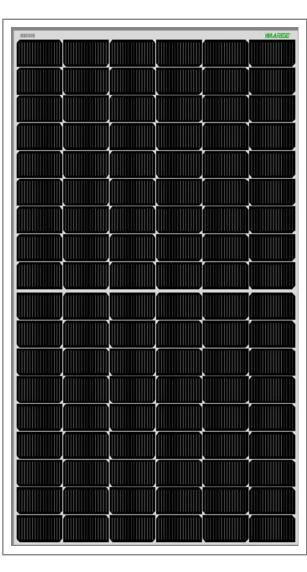


Better weak light performance



One with the Sun

Excellent PID resistance

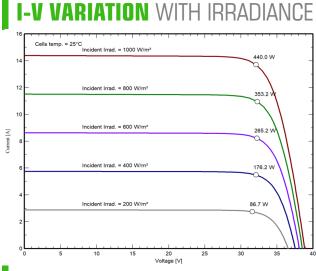




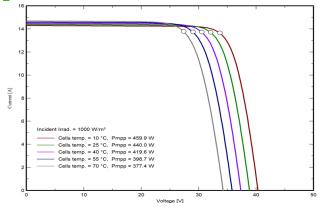




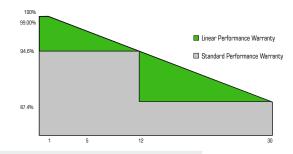
IEC 61215, IEC 61730 UL 61730-1, UL 61730-2



ARIATION WITH TEMPERATURE



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



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White Backsheet Monofacial module

ELECTRICAL CHARACTERISTICS



Models	Pmax (W)		Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff. (%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	iviodule Ett. (90)
WSMT-415	415	313.3	31.42	29.44	13.21	10.65	14.02	11.30	37.99	36.09	21.25
WSMT-420	420	317.1	31.63	29.63	13.28	10.70	14.09	11.36	38.10	36.19	21.51
WSMT-425	425	320.9	31.84	29.83	13.35	10.76	14.16	11.41	38.26	36.35	21.76
WSMT-430	430	324.7	32.04	30.02	13.42	10.82	14.23	11.47	38.42	36.50	22.02
WSMT-435	435	328.4	32.25	30.21	13.49	10.87	14.30	11.53	38.58	36.65	22.27
WSMT-440	440	332.2	32.42	30.38	13.57	10.94	14.38	11.59	38.83	36.88	22.53

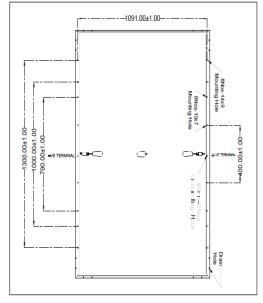
*Standard Test Conditions (STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring Uncertainty ± 3%.

System Voltage 1500 V	Series Fuse Rating	25 A
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MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	1722 mm (L) x 1134 mm (W) x 32 mm (T)
Weight	21 kgs
Solar Cells per Module (Units) / Arrangement	108 cells / (9x6 9x6)
Solar Cell Type & Size	N-type TOPCon, 91 x 182 mm
Front Glass	3.2 mm Low Iron and Tempered glass with ARC coating
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 mm² & 500mm
Frame	Anodized Aluminium Alloy

DESIGN SPECIFICATIONS



12 Years Product Warranty • 30 Years Power Output Warranty

THERMAL CHARACTERISTICS

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

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.

*If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Waaree sales and technical representatives.

- The electrical data given here is for reference purpose only.
- $\bullet \ \mathsf{Please} \ \mathsf{confirm} \ \mathsf{your} \ \mathsf{exact} \ \mathsf{requirements} \ \mathsf{with} \ \mathsf{the} \ \mathsf{sales} \ \mathsf{representative} \ \mathsf{while} \ \mathsf{placing} \ \mathsf{your} \ \mathsf{order}.$
- Refer installation Manual instructions & Waaree warranty statement for terms & conditions.
- Waaree Reserves the right to change the specifications without prior notice.