ELITE SERIES N-TYPE

WSMT-615 to WSMT-650 Framed Glass White Backsheet 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

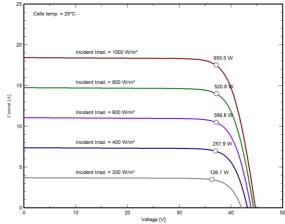


Better weak light performance

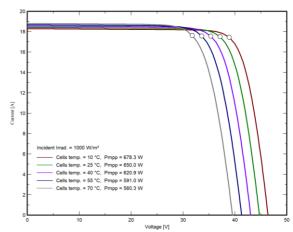


Excellent PID resistance

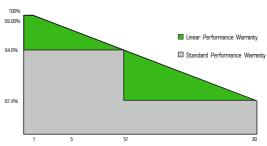
I-V VARIATION WITH IRRADIANCE



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

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ELECTRICAL CHARACTERISTICS

Models	Pmax (W)		Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff. (%)
IVIUUEIS	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	Iviodule Ell. (90)
WSMT-615	615	466.20	35.94	33.50	17.11	13.79	18.13	14.61	43.44	41.27	21.73
WSMT-620	620	470.00	36.15	33.69	17.15	13.82	18.17	14.65	43.62	41.44	21.91
WSMT-625	625	473.80	36.36	33.89	17.19	13.86	18.22	14.69	43.80	41.61	22.08
WSMT-630	630	477.50	36.56	34.08	17.23	13.89	18.26	14.72	43.98	41.78	22.26
WSMT-635	635	481.30	36.77	34.27	17.27	13.92	18.30	14.75	44.16	41.95	22.44
WSMT-640	640	485.10	36.97	34.46	17.31	13.95	18.34	14.78	44.34	42.12	22.61
WSMT-645	645	488.90	37.18	34.65	17.35	13.98	18.38	14.81	44.52	42.29	22.79
WSMT-650	650	492.70	37.38	34.84	17.39	14.02	18.42	14.85	44.70	42.47	22.97

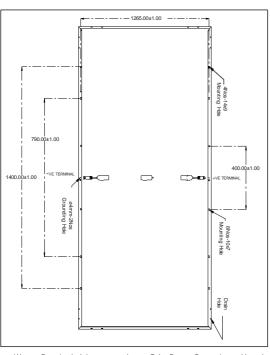
*Standard Test Conditions (STC) - 1000 W/m^2 irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m^2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m^2 as per IEC 60904-1. Measuring Uncertainty \pm 3%.

System Voltage 1500 V Series Fuse Ratting 35 A	System Voltage
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THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.046
Temperature coefficient of Voltage (Voc), ß (%/°C)	-0.26
Temperature coefficient of Power (Pm), γ (%/°C)	-0.30
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85

DESIGN SPECIFICATIONS



MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2172 mm (L) x 1303 mm (W) x 35 mm (T)
Weight	31 kgs
Solar Cells per Module (Units) / Arrangement	120 cells / (10x6 10x6)
Solar Cell Type & Size	G12 N-type TOPCon Bifacial
Front Glass (Material / Thickness)	3.2 mm Low Iron HTAR 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 mm² & 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.

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