

SUPER 400 PRO

Bifacial - 400Wp

WAAREE[®]

One with the Sun



Better Performance under all climatic conditions



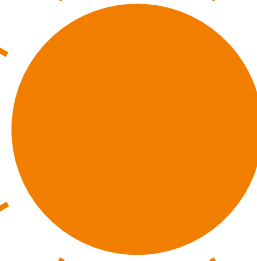
Enhanced power output due to revolutionary design



Lower NMOT



Split Junction Box



Reduced power losses up to 1/4 times



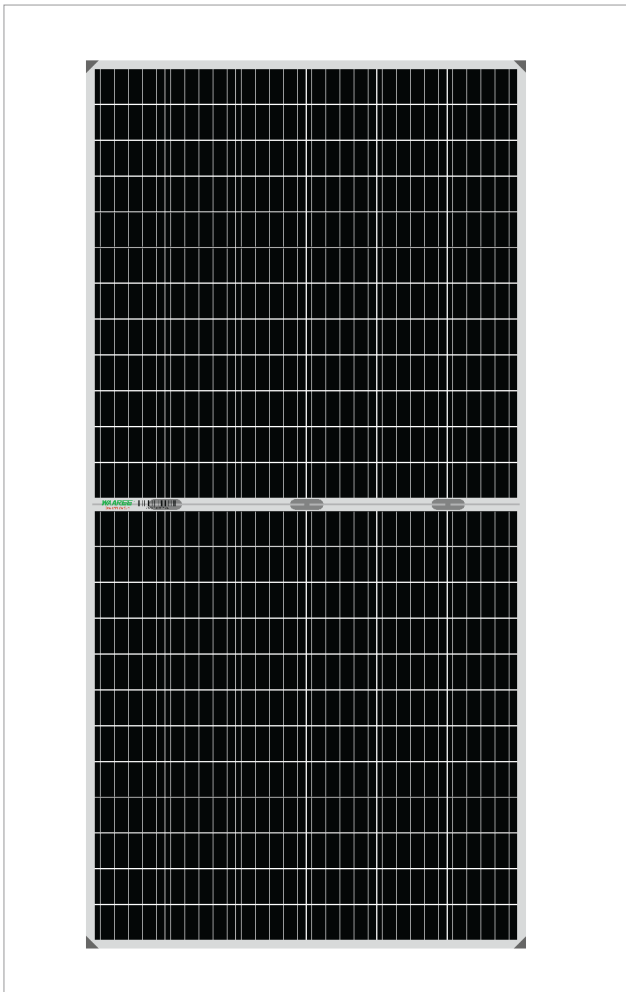
PID resistant with long term reliability



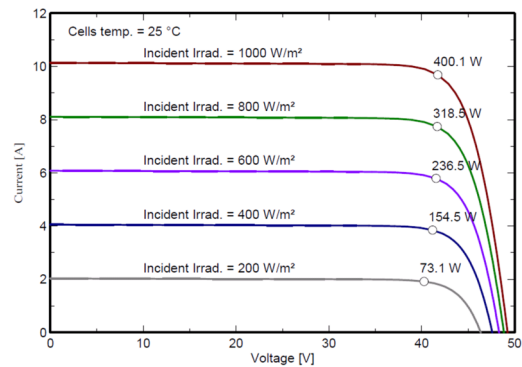
Sustain heavy wind & snow loads (2400 pa & 7500 pa)



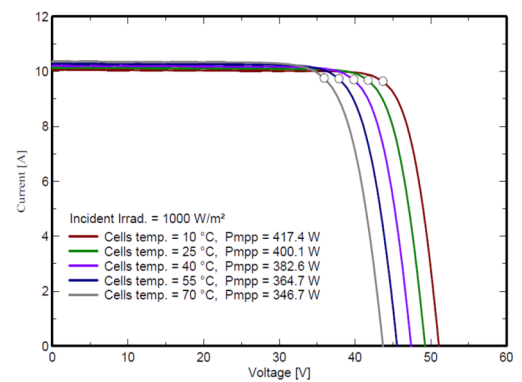
1500 VDC System voltage for lower BoS cost



I-V variation with Irradiance



I-V variation with Temperature



• The specifications are for reference purpose only. Waaree reserves the right to change the specifications without prior notice.

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ELECTRICAL CHARACTERISTICS

Models	Pmax (W)	Vmp (V)	Imp (A)	Isc (A)	Voc (V)	Module Eff. (%)
WSD-400	400	40.68	9.85	10.06	49.47	20.17

ELECTRICAL CHARACTERISTIC WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 400Wp FRONT POWER) - SUPER 400 PRO

Pmp	Voc	Isc	Vmp	Imp	Power gain
421	49.5	10.56	40.7	10.34	5%
441	49.5	11.07	40.7	10.84	10%
461	49.6	11.54	40.8	11.30	15%
481	49.6	12.04	40.8	11.79	20%
501	49.6	12.54	40.8	12.28	25%
521	49.7	13.03	40.8	12.75	30%

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T) - mm	2030 mm (L) x 998.5 mm (W) x 6 mm (T)
Weight (kg)	29
Solar Cells per Module (Units) / Arrangement	144 cells / (12*6 x 12*6)
Solar Cell Type	Mono Crystalline Silicon
Front Cover (Material / Thickness)	3.2/4 mm Tempered & Low Iron Glass with ARC
Encapsulate	PID Free Encapsulant, UV Resistant & Ultra Fast Cure
Junction Box (Protection degree/ Material)	Weatherproof PPO/ IP67 enclosure with bypass diodes
Cable & Connector (Protection degree / Type)	IP67 rated / MC4 compatible
Cable cross - section & Length	4 mm ² & 500mm

THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.05
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.31
Temperature coefficient of Power (Pm), γ (%/°C)	-0.34
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 1.5 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 280+ 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.

**Refer installation Manual instructions & Waaree warranty statement for terms & conditions.
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