

# ARKA SERIES

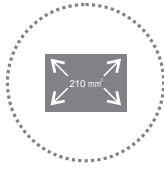
WSMD-580 to WSMD-600

# WAAREE®

One with the Sun



Highest reliability & enhanced crack tolerant 12BB module



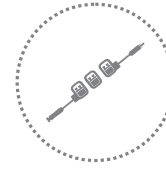
Full square Mono PERC M12 cells



Best in class thermal coefficients



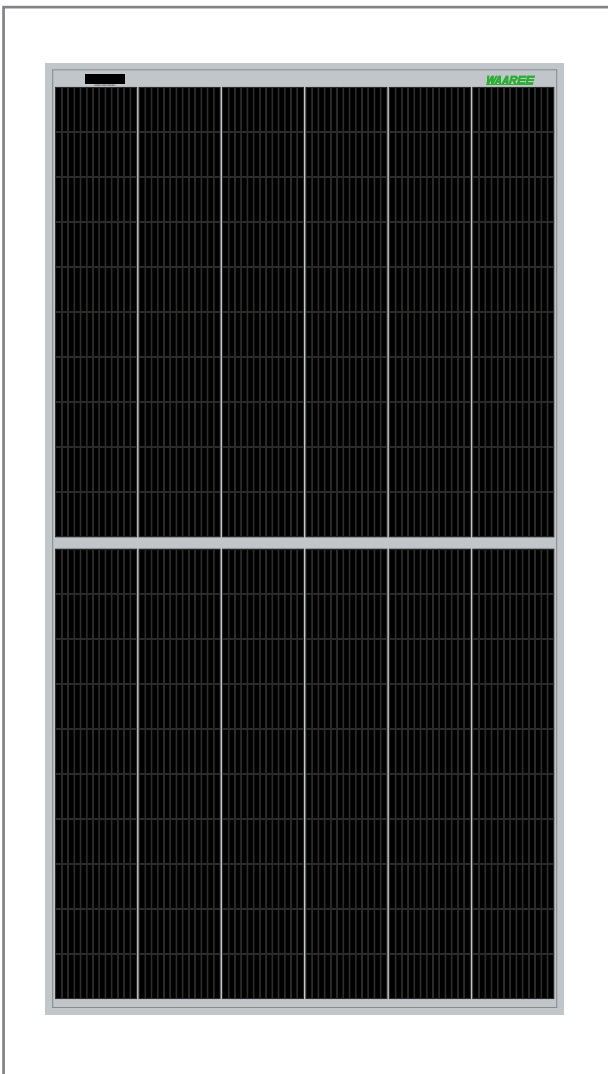
Highest commercial gains, lower LCOE



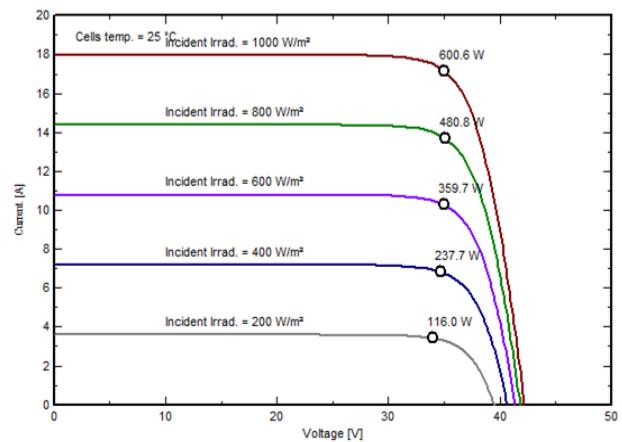
Split junction box improve heat dissipation & lower risk of hotspot



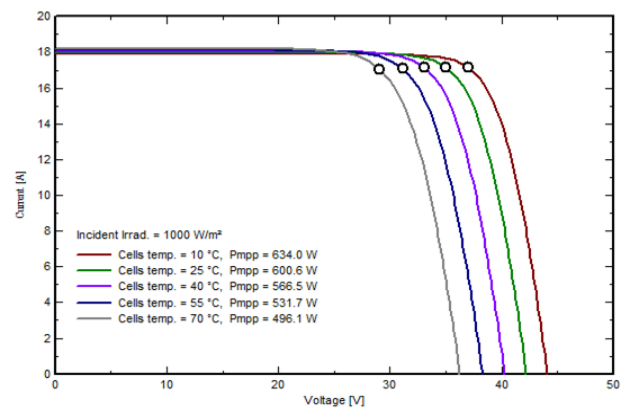
Increase shade tolerance



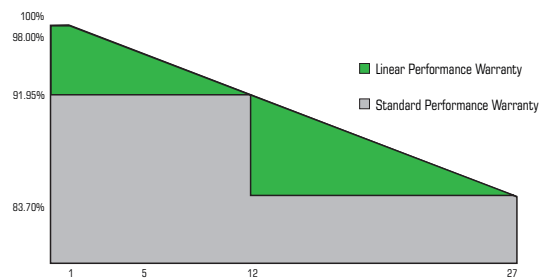
## I-V VARIATION WITH IRRADIANCE



## I-V VARIATION WITH TEMPERATURE



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



ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018  
Independent assessment of factories by BLACK & VEATCH

[www.waaree.com](http://www.waaree.com)

# ARKA SERIES

WSMD-580 to WSMD-600

**WAAREE**<sup>®</sup>

One with the Sun

## 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	
WSMD-580	580	436.2	34.21	32.20	16.96	13.53	17.73	14.29	41.56	39.10	20.35
WSMD-585	585	440.1	34.34	32.40	17.04	13.57	17.78	14.33	41.76	39.30	20.52
WSMD-590	590	444.1	34.39	32.60	17.16	13.63	17.84	14.37	41.90	39.40	20.70
WSMD-595	595	448.7	34.44	32.80	17.29	13.68	17.90	14.42	42.05	39.60	20.88
WSMD-600	600	452.4	34.62	32.90	17.35	13.75	17.98	14.49	42.18	39.70	21.06

\*Standard Test Conditions (STC) - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m<sup>2</sup> 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<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty ± 3%.

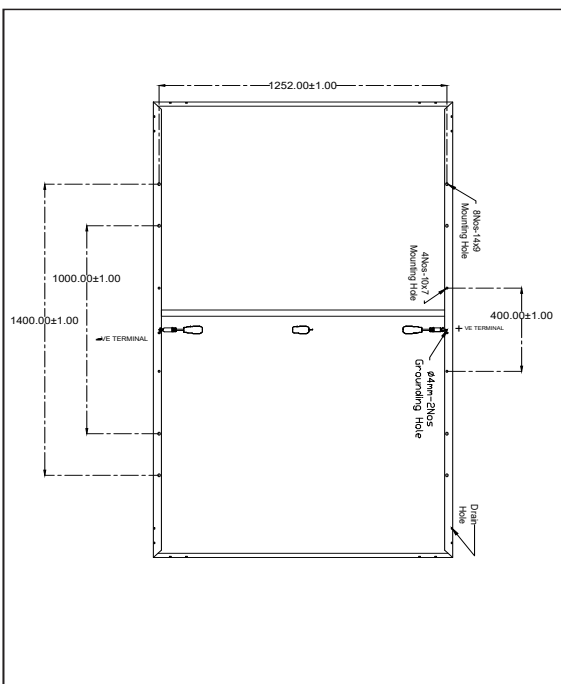
System Voltage	1500 V
----------------	--------

Series Fuse Rating	30 A
--------------------	------

## MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2190 mm (L) x 1302 mm (W) x 35 mm (T)
Weight	31 kgs
Solar Cells per Module (Units) / Arrangement	120 cells / (10x6    10x6)
Solar Cell Type & Size	Mono PERC, 105 x 210 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 mm <sup>2</sup> & 500mm
Frame	Anodized Aluminium Alloy

## DESIGN SPECIFICATIONS



12 Years Product Warranty • 27 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.

## THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), $\alpha$ (%/°C)	0.04
Temperature coefficient of Voltage (Voc), $\beta$ (%/°C)	-0.25
Temperature coefficient of Power (Pm), $\gamma$ (%/°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 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 325+ 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.