# **ARKA SERIES** WSMDB-380 to WSMDB-410





Highest reliability & enhanced crack tolerant MBB module



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



Highly efficient Mono PERC M10 cells



Best in class thermal coefficients



Highest commercial gains, lower LCOE

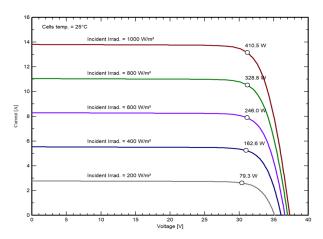


Split junction box improve heat dissipation

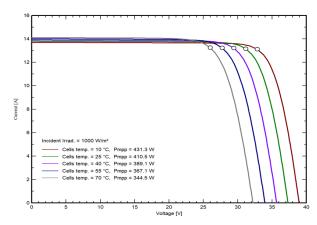


Increase shade tolerance

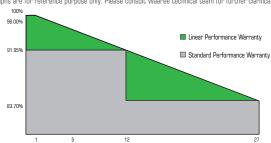
# I-V VARIATION WITH IRRADIANCE



# **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

# **ARKA SERIES**

## WSMDB-380 to WSMDB-410



#### **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 EII. (90)
WSMDB-380	380	286.9	30.59	28.20	12.44	10.19	13.34	10.77	36.45	34.20	19.48
WSMDB-385	385	290.6	30.71	28.30	12.55	10.27	13.42	10.83	36.57	34.30	19.73
WSMDB-390	390	294.0	30.82	28.50	12.67	10.33	13.50	10.90	36.69	34.40	19.99
WSMDB-395	395	297.8	31.06	28.70	12.73	10.39	13.58	10.96	36.94	34.70	20.25
WSMDB-400	400	301.3	31.19	28.80	12.84	10.45	13.66	11.02	37.06	34.80	20.50
WSMDB-405	405	304.6	31.31	29.00	12.95	10.51	13.73	11.08	37.18	34.90	20.76
WSMDB-410	410	308.1	31.40	29.20	13.07	10.57	13.81	11.14	37.31	35.00	21.01

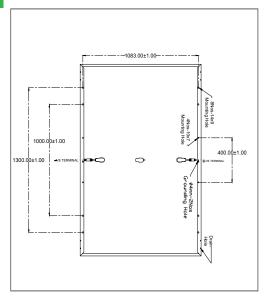
<sup>\*</sup>Standard Test Conditions (STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature. Nominal Operating Cell Temperature (NOCT) - 800 W/m2 irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m2 as per IEC 60904-1. Measuring 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 1133 mm (W) x 35 mm (T)
Weight	21 kgs
Solar Cells per Module (Units) / Arrangement	108 cells / (9x6     9x6)
Solar Cell Type & Size	Mono PERC, 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 PP0
Cable & Connector (Protection degree / Type)	IP68 rated / MC4 compatible
Cable cross - section & Length	4 mm² & 500mm
Frame	Anodized Aluminium Alloy

## **DESIGN** SPECIFICATIONS



## THERMAL CHARACTERISTICS

Temperature coefficient of Current (lsc), $\alpha$ (%/°C)	0.05
Temperature coefficient of Voltage (Voc), ß (%/°C)	-0.25
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 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.

#### 12 Years Product Warranty • 27 Years Power Output Warranty

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