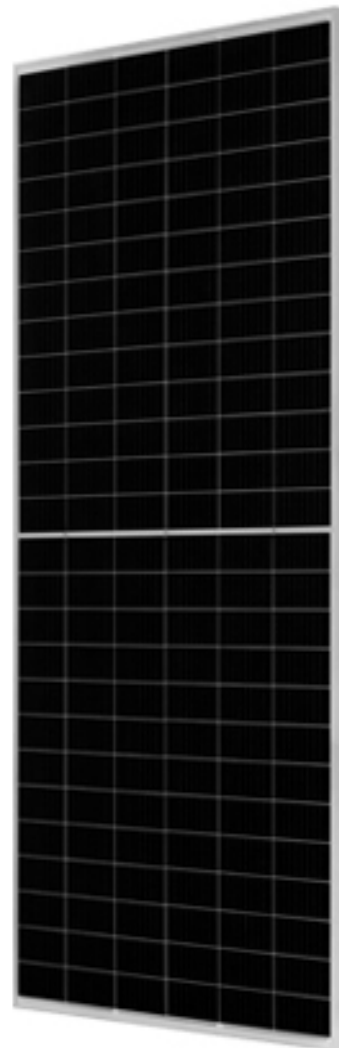


# KODAK Solar Module

650-670/M Series

## 650W Half-cell Module

This time-tested legacy module series has been proven to be one of the powerful and most reliable products offered by Blue Mountain Energy and the most popular choice by PV system installers and customers around world.



High module efficiency



Salt mist corrosion protection & Ammonia Resistance



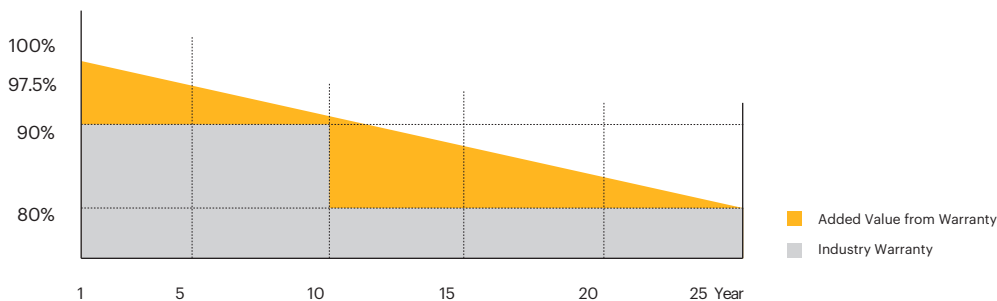
Potential Induced Degradation Free



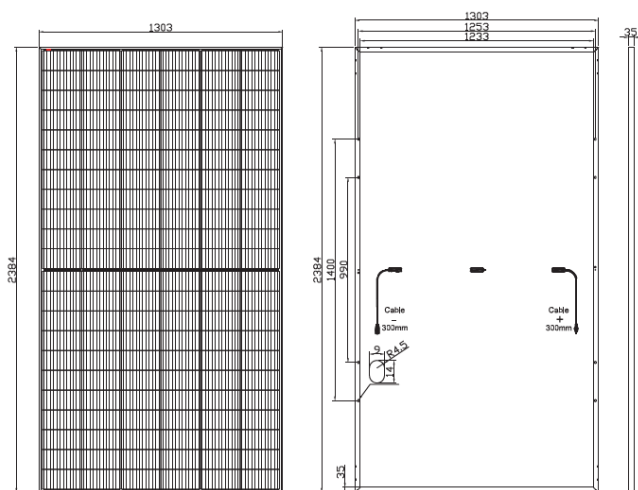
Mechanical load capability up to 5400 Pa

### Superior Warranty

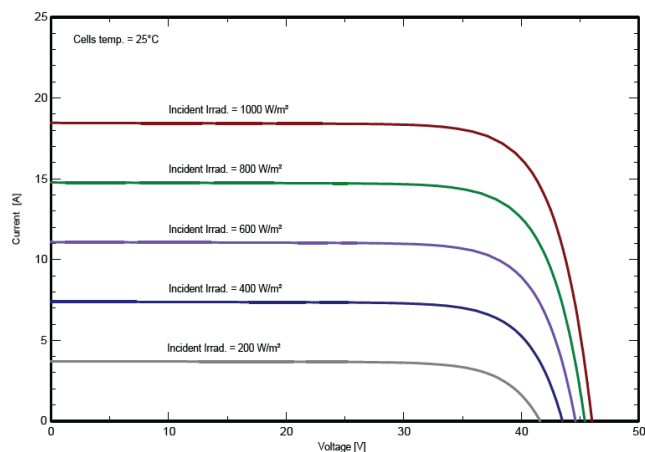
- 12-year product warranty
- 25-year linear power output warranty



## MECHANICAL DATA



## I-V CURVES



## ELETRICAL CHARACTERISTICS

	TYPE	650M12-66H	655M12-66H	660M12-66H	665M12-66H	670M12-66H
	POWER OUTPUT	650	655	660	665	670
STC 1000W/M <sup>2</sup> Module Temperature 25°C A.M.1.5	MAX POWER TOLERANCE	0-5W	0-5W	0-5W	0-5W	0-5W
	MODULE EFFICIENCY (%)	20.92	21.41	21.25	21.41	21.57
	VOLTAGE MPP V <sub>mpp</sub>	37.75	37.91	38.08	38.28	38.43
	CURRENT MPP I <sub>mpp</sub> (A)	17.23	17.28	17.33	17.37	17.43
	VOLTAGE OPEN CIRCUIT V <sub>oc</sub>	45.68	45.87	46.03	46.24	46.42
	SHORT CIRCUIT CURRENT I <sub>sc</sub> (A)	18.35	18.40	18.46	18.50	18.56
NOCT 800W/M <sup>2</sup> Environment Temperature 20°C A.M.1.5	POWER OUTPUT	499.35	503.19	507.03	510.87	514.71
	VOLTAGE MPP V <sub>mpp</sub> (V)	34.41	34.56	34.71	34.89	35.03
	CURRENT MPP I <sub>mpp</sub> (A)	14.51	14.56	14.61	14.65	14.69
	VOLTAGE OPEN CIRCUIT V <sub>oc</sub> (V)	42.17	42.35	42.50	42.69	42.86
	SHORT CIRCUIT CURRENT I <sub>sc</sub> (A)	15.60	15.65	15.70	15.75	15.79
TEMPERATURE COEFFICIENTS I <sub>sc</sub>	(% / °C)			0.046		
TEMPERATURE COEFFICIENTS V <sub>oc</sub>	(% / °C)			-0.266		
TEMPERATURE COEFFICIENTS P <sub>mpp</sub>	(% / °C)			-0.354		
NOCT (°C)				45±2°C		

## MECHANICAL DATA

DIMENSIONS OF MODULE	2384*1303*35mm
WEIGHT (Kg)	34.0
CABLE	4mm <sup>2</sup>
GLASS	High transmission glass 3.2mm
JUNCTION BOX	IP68, 3 Bypass-Diode, 300mm in length
TYPE OF CONNECTOR	Compatible with MC 4 plug

## WORKING CONDITIONS

MAX SYSTEM VOLTAGE (VDC)	1500V
SERIES FUSE RATING	30A
MECHANICAL LOAD	5400Pa
OPERATING TEMPERATURE (°C)	-40 ~ +85
APPLICATION CLASS	A