

HS144-M-[420W-445W]9BB

MONO-CRYSTALLINE MODULE



No power loss thanks to improved temperature co-efficient caused by 9 busbar solar cell



Limited power degradation HS module caused by PID effect is guaranteed under strict testing condition for mass production



Certied to withstand the most challenging environmental conditions



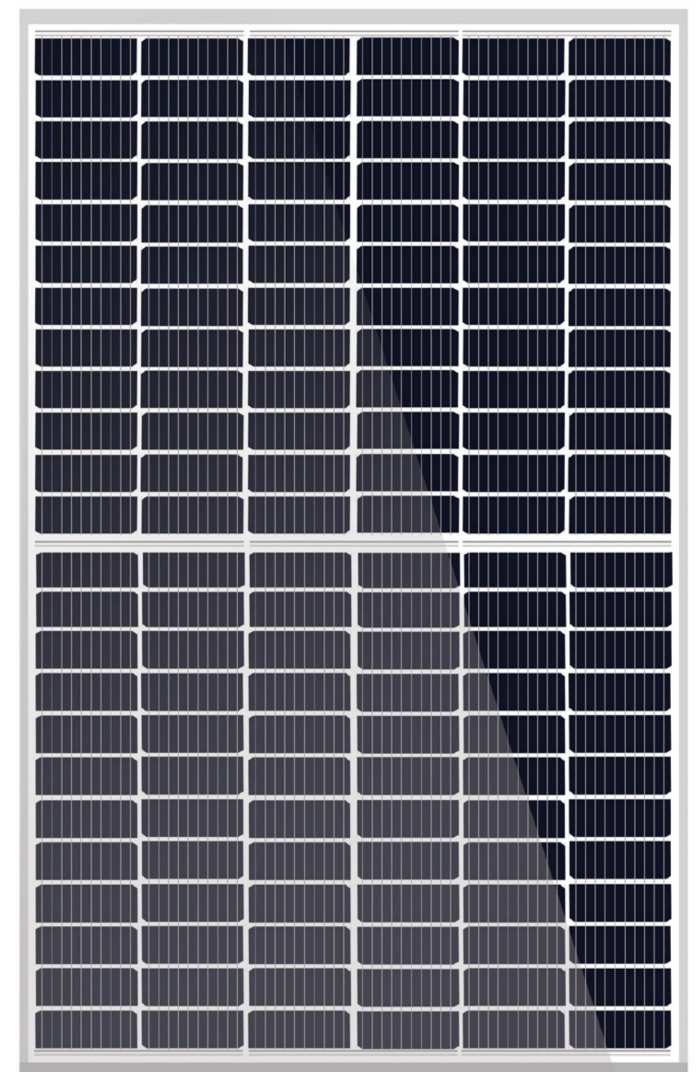
Graphene coating can increase about 2W of the module efficiency by rising around 0.5% of the light transmission



Lower temperature coefficient and wide spectral response, higher power output, even under low-light settings

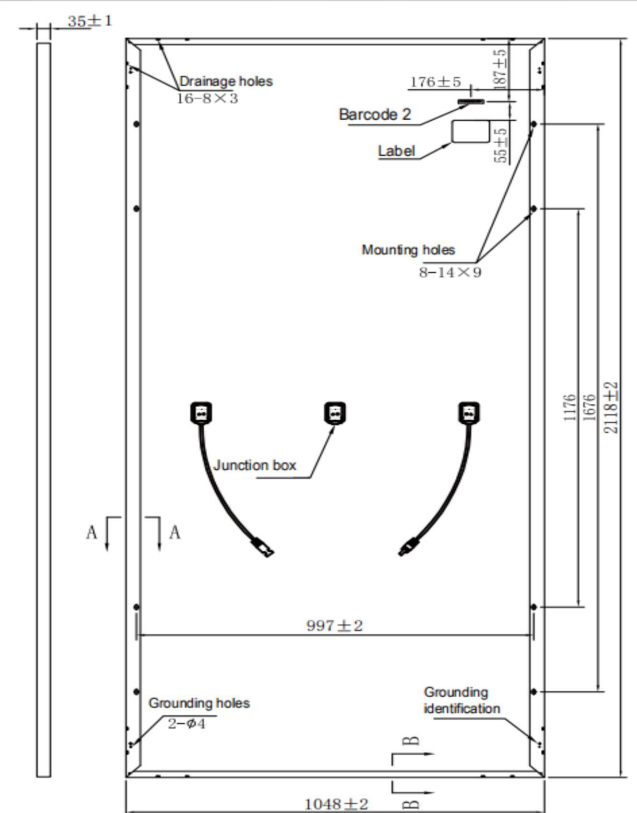


Graphene coating modules can increase power generation and self-cleaning, also can save maintainance cost



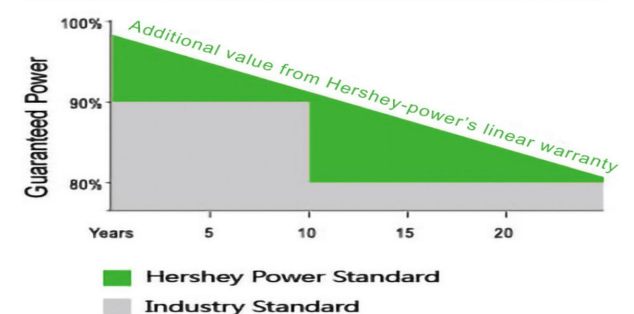
ELECTRICAL PROPERTIES | STC*

Module Type	HS144-M-420W	HS144-M-425W	HS144-M-430W	HS144-M-435W	HS144-M-440W	HS144-M-445W
Nominal Power Watt Pmax(W)	420W	425W	430W	435W	440W	445W
Power Output Tolerance Pmax(%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp(V)	42.4	42.6	42.8	43	43.2	43.4
Maximum Power Current Imp(A)	9.96	10.03	10.10	10.17	10.24	10.31
Open Circuit Voltage Voc(V)	50.6	50.8	51	51.2	51.4	51.6
Short Circuit Current Isc(A)	10.45	10.50	10.55	10.6	10.65	10.70
Module Efficiency (%)	19.82	19.15	19.37	19.60	19.82	20.05

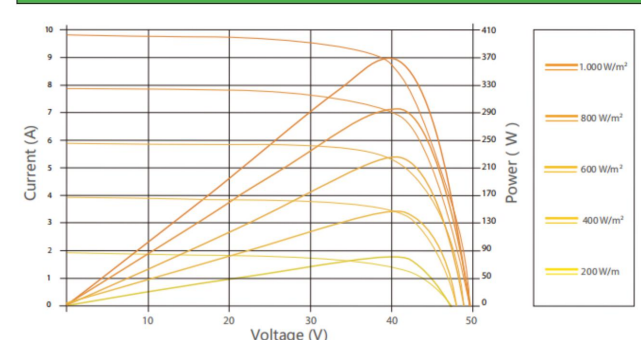


LINEAR PERFORMANCE WARRANTY

12year Product Warranty/25year Linear Power Warranty



I-V CURVES OF THE PV MODULE



MECHANICAL DATA	
Solar cells	Monocrystalline,166mm/9bb
Module size	2115×1052×40mm
Weight	25kgs
Super strate	High transparency,low iron,tempered
Substrate	Glass 3.2 mm (AR-coating)
Frame	Anodized aluminum alloy
J-Box	Potted,IP68,1500VDC
Cables	4.0mm(12AWG),1000mm length
Connector	IP67/IP68
Pc/container	240pcs/20"container,594pcs/40"HQ

TEMPERATURE&MAXIMUM RATINGS	
Nominal Module Operating Temperature	44℃ ± 2℃
Temperature coefficient of Voc	-0.29%/℃
Temperature coefficient of Isc	0.05%/℃
Temperature coefficient of Pmax	-0.36%/℃
Operational temperature	-40℃ ~+85℃
Maximum system voltage	1000 / 1500 V DC
Max seires fuse rating	20 A
Maximum load(snow/wind)	5400 Pa / 2400 Pa
Limiting reverse current	20A

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