



108BB 400W HC Series

mSolar 10BB Half-Cell Black Monocrystalline PERC PV Module



Excellent efficiency

10 busbar technology increases power by decreasing the distance between busbars and the finger grid line



Improved weak illumination response

More power output even in lower light conditions such as overcast days or off-peak sunlight hours



Anti PID

Panels rigorously tested to limit power degradation caused by 'stray' currents



High wind and snow resistance

5,400 Pa Snow Load 2,400 Pa Wind Load



25-year warranty

M Solar modules are guaranteed to retain at least 84.3% of the initial power output



Appealing Aesthetics

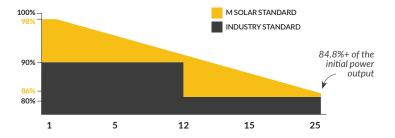
Fully black module creates a sleek, uniform array



25-year product warranty, 25-year output warranty



0.5% annual degradation over 25 years









108BB 400W HC Series | msolar 10BB Half-Cell, All-Black Monocrystalline PERC PV Module

Electrical Characteristics STC	*		
Module Type	TXI10-395108BB	TXI10-400108BB	TXI10-405108BB
Nominal Power Watt Pmax (W)*	395	400	405
Power Output Tolerance Pmax (W)	0~+5	0~+5	0~+5
Maximum Power Voltage Vmp (V)	30.84	31.01	31.21
Maximum Power Current Imp (A)	12.81	12.90	12.98
Open Circuit Voltage (V)	36.98	37.07	37.23
Short Circuit Current Isc (A)	13.70	13.97	13.87
Module Efficiency (%)	20.23	20.48	20.74

^{*}STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5

Electrical Characteristics NMOT	k		
Maximum Power Watt Pmax (Wp)	298	270	274
Maximum Power Voltage Vmpp (V)	29.08	29.26	29.47
Maximum Power Current Impp (A)	10.25	10.32	10.38
Open Circuit Voltage Voc (V)	34.75	34.88	35.12
Short Circuit Current Isc (A)	10.96	11.03	11.10

^{*}NMOT(Nominal module operating temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Data Solar Cells Mono PERC, 182mm half cells Cells orientation 108 (6x9+6x9) Module dimension 67.80x44.65x1.38 in. (1,722x1,134x35 mm) Weight 46.30 lb (21.00 kg) Glass 3.2mm, High Transmission, Low Iron & Semi-Tempered Glass Junction Box IP 68, 3 Diodes Cables 1,200mm MC4 EVO2 Connectors

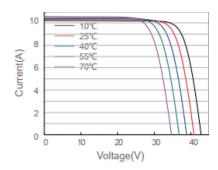
Temperature Ratings		Working Conditions	
NOCT	42°C±2°C	Maximum System Voltage	1500VDC
Temperature coefficient of Pmax	-0.350%/°C	Operating Temperature	-40°C ~+85°C
Temperature coefficient of Voc	-0.275%/°C	Maximum Series Fuse	25A
Temperature coefficient of Isc	+0.045%/°C	Maximum Load (Snow/Wind)	5,400Pa / 2,400Pa
		Fire Rating	UL Type 1**

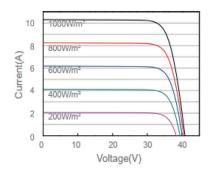
*Do not connect Fuse in Combiner Box with two or more strings in parallel connection *Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

**Please note, the 'Fire Class' Rating is designated for the full installed PV system,

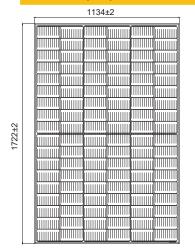
which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

I-V Curves of PV Module (365W)

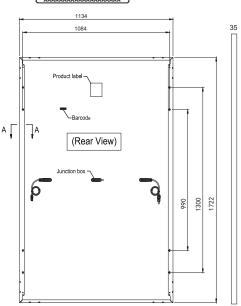




Dimensions (MM)



Front



Back Side

Tolerance: Length: ±2mm Width: ±2mm Height: ±1mm Pitch-row: ±1mm



Packaging Details

31 Panels Pallet Stack per pallet Weight 2,934 lbs. 26 Pallets (1341.98 kg) per truck

Truck Weight 38,461.2 lbs. (17,445.7 kg)

