

MAS-12-60P-220 SERIES

MAS-12-60P-230 MAS-12-60P-220 MAS-12-60P-210

Monocrystalline Silicon Solar Module

Specifications

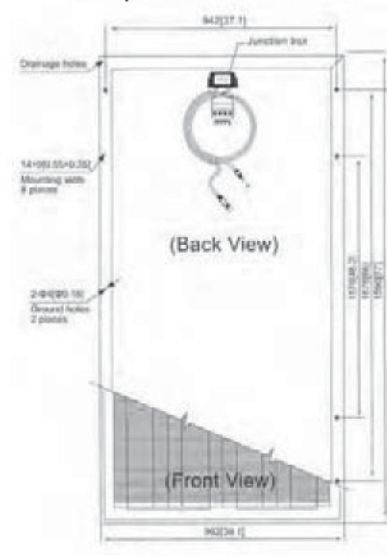
Cell	Polycrystalline silicon solar cells 156mm×156mm
No. of cells and connections	60 (6×10)
Dimension	1640×992×50 (mm)
Weight	21kg

Limits

Operating temperature	-40 to +85°C
Maximum system voltage	1000V DC



Blueprint of the module



Temperature and Coefficients

NOCT	48°C±2°C	
Current temperature coefficient	%/K	0.06±0.01
Voltage temperature coefficient	mV/K	-(155±10)
Power temperature coefficient	%/K	-(0.5±0.05)

NOCT: Nominal Operation Cell Temperature

Characteristics

Model	CJE-12-60P-230	CJE-12-60P-220	CJE-12-60P-210
Open circuit voltage(Voc)	37.0V	36.7V	36.4V
Optimum operating voltage(Vmp)	29.6V	29.4V	29.1V
Short circuit current(Isc)	8.63A	8.31A	8.02A
Optimum operating current(Imp)	7.77A	7.48A	7.22A
Maximum power at STC (Pm)	230Wp	220Wp	210Wp
Full Factor(FF)	72%	72%	72%
Cells transfer efficiency	15.75%	15.07%	14.38%
Modules transfer efficiency	14.14%	13.52%	12.91%

STC: 1000W/m², 25°C, AM1.5

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