

MONO-FACIAL MODULE 405-420 W

ELECTRICAL PARAMETERS @ STC

Peak Power	Pmax (W)	405	410	415	420
Maximun Power Voltage	V _{mp} (V)	31.02	31.22	31.42	31.62
Maximun Power Current	I _{mp} (A)	13.06	13.13	13.21	13.28
Open-circuit voltage	V _{oc} (V)	37.14	37.34	37.54	37.74
Short-circuit current	I _{sc} (A)	13.65	13.70	13.75	13.80
Module Efficiency	η(%)	20.72	20.97	21.23	21.48

Values at standard test conditions STC (Air mass AM1.5, Irradiance 1000W/sqm, Cell temperature 25°C)
Power Measurement Tolerance: 0 / +3%

MECHANICAL DATA

Solar Cell (type / dimension)	Mono-crystalline solar cells / 182 x 91mm
Cell Amount	54 x 2
Module Dimension (L x W x H)	1722mm x 1134mm x 30mm
Weight	21.5 kg
Frame (material)	Aluminum Alloy
Front Glass (material / thickness)	High transmission low-iron tempered glass / 3.2mm
Backsheet (material)	Fluoropolymer coating / PET / polyolefin
Mechanical Load	Wind/Snow 2400/5400 Pa
Junction Box (protection degree)	IP 68
Output Cables	4mm ² ,+300,-300mm/±1100mm Length can be customized
Connector	MC4 compatible

TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temp. (NOCT)	41 +/- 3°C
Voltage Temperature Coefficient (VOC)	-0.28% / °C
Current Temperature Coefficient (Isc)	0.05% / °C
Power Temperature Coefficient (Pmax)	-0.34% / °C

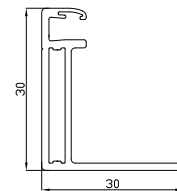
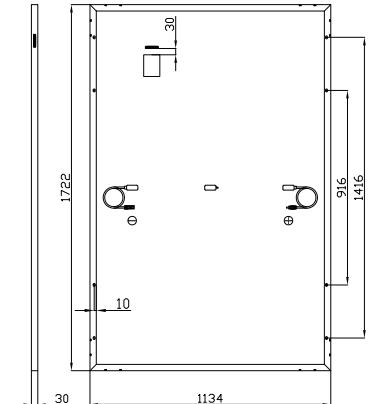
MAXIMUM RATINGS

Operational Temperature	-40°C to +85°C
Maximun System Voltage	1500V
Max Series Fuse Rating	25A

WARRANTY

Warranty	25 years Power Output Warranty 10 years 90%, 25 years 85% 10 years Product Warranty on Material
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MECHANICAL DRAW



I-V CURVE

