



72 CELL MONOCRYSTALLINE MODULE

385W - 405W **OUTPUT POWER RANGE**

OVER %20 PANEL EFFICIENY



Sonetrol ENERGY; activity in the sector since 2016 by closely following innovative and innovative developments, is a company that offers innovative quality product solutions to the market. Common interest with our employees, stakeholders and customers by acting in line with the renewable energy sector we serve you to contribute.

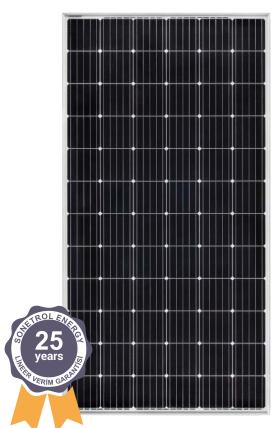
(S) SONETROL ENERGY; presented to you, our valued customer 10 years product durability for models, 10 years 90% efficiency and 25 years It guarantees 80% linear efficiency.

QUALITY SYSTEMS AND CERTIFICATION

IEC61215: Crystalline Silicon Terrestrial Photovoltaic (PV) Modules-Design Qualification and Type Approval IEC61730: Photovoltaic Module Safety Qualification - Requariments for Construction

ISO 9001: Guality management system ISO 14001: Environmental Management System Certificate OHSAS 18001: Occupational Health and Safety Management System









Positive Output Tolerance



Over %20 Panel Efficieny

100% Double

EL Control



Compatible with International Standards



1500V Maximum



System Voltage



5400 Pa Snow Load 2400 Pa Wind Load Resistance

10 Years Producer Warranty

High Quality Junction Box and Pluging System



Type 1, Type 2 A Class Fire Protection



25 Years Linear Performance Warranty

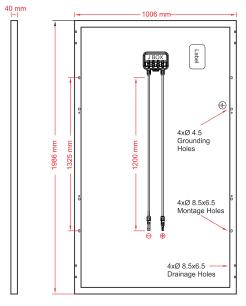


The data were measured under standard test conditions. It may vary depending on the ambient conditions

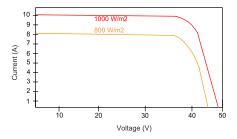


SM-Mp Series Monocrystalline (Perc Cell) PV Modules 385W - 405W

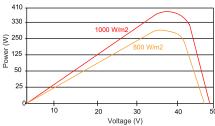
MODULE DIMENSIONS (mm)



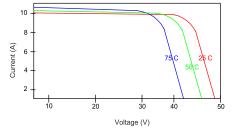
CURRENT VOLTAGE CURVE







CURRENT VOLTAGE CURVE





ELECTRICAL PARAMETERS (STC)

	Unit	OSMp72-385W	OSMp72-390W	OSMp72-395W	OSMp72-400W	OSMp72-405W
Maximum Power	Pmaks (Wp)	385	390	395	400	405
	0 ~ +5W					
Max. Power Voltage	Vmpp (V)	40,8	41,1	40,48	40,51	41,1
Max. Power Current	Impp (A)	9,44	9,49	9,76	9,9	9,87
Open Circuit Voltage	Voc (V)	49,1	49,3	49,64	49,95	49,3
Short Circuit Voltage	lsc (A)	9,92	10,12	10,27	10,30	10,49
Module Efficiency	ηm (%)	19,27	19,52	19,77	20,07	20,2

STC: 1000W/m² Irradiation / 25°C Cell Temperature / AM=1,5 / Measurement Accuracy ±%3 / 1m/s Wind Speed

ELECTRICAL PARAMETERS (NOTC)

	Unit	OSMp72-385W	OSMp72-390W	OSMp72-395W	OSMp72-400W	OSMp72-405W
Maximum Power	Pmaks (Wp)	291	295	300	306	308
Max. Power Voltage	Vmpp (V)	38,9	39,1	39,5	39,9	38,9
Max. Power Current	Impp (A)	7,49	7,55	7,61	7,67	7,92
Open Circuit Voltage	Voc (V)	47,8	48,1	48,6	49	46
Short Circuit Voltage	lsc (A)	7,95	8,01	8,07	8,1	8,44

NOTC: 800W/m² Irradiation / 20°C Cell Temperature / AM=1,5 / Measurement Accuracy \pm %3 / 1m/s Wind Speed

MECHANICAL COMPONENTS

Cell Type	Monocrystalline Perc Cell / 156.75 mm x 156.75 mm	
Cell Amount	72 Cell (6x12)	
Panel Size	1006 x 1986 x 40 mm	
Weight	22,5 Kg	
Glass	3.2 mm (0,125")Low Ironed High-Pass Tempered Glass	
Back Surface	Multi Layered White Polimer Film	
Frame	White Anodized Aluminium	
Junction Box	IP 67 or IP 68 - 1500 VDC / 15A	
Output Cables	IEC, UL approved (4 mm ² ,12 AWG) (PV Cable Type) , 1200mm	
Connector	Compatible MC4 (IP67, IEC and UL approved)	
Fire Resistance	Type 1, Type 2 - A Class	
Impact Resistance	Decreased from "51,19 / 1300 mm, (1.18 lbs / 535g) Steel Ball Test	

TEMPERATURE COEFFICIENTS

NOTC (Nominal Cell Working Temperaure)	45°C (± 2°C)
Temperaure Coefficent (Pmax)	-0,40 %/°C
Temperaure Coefficent (Voc)	-0,3409 %/°C
Temperaure Coefficent (Isc)	+0,0447 %/°C

WORKING CONDITIONS

Working Temperature	-40~+85°C
Max. System Voltage	1500V DC (UL / IEC)
Max. Reverse Current	15A / 20A
Maximum Load	75 lbs ft (UL Standard) 5400 Pa (IEC Standard)

PACKAGING

Pallet Size: 1150x2006x1150 mm

- Modules per Pallet: 28 Pieces
- Total Weight: 660 Kg

Modules per 40 HC Container: 720 Pieces

Modules per 20 DC Container:: 300 Pieces

WARRANTY

10 Years Mechanical Warranty

25 Years Linear Performance Warranty



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