

ReneSola

Mono Half-Cut Module

430W/435W/440W/445W/450W

Twin 2.0



High Module Conversion Efficiencies



Easy Installation and Handling for Various Applications



Mechanical Load Capability of up to 5400 Pa



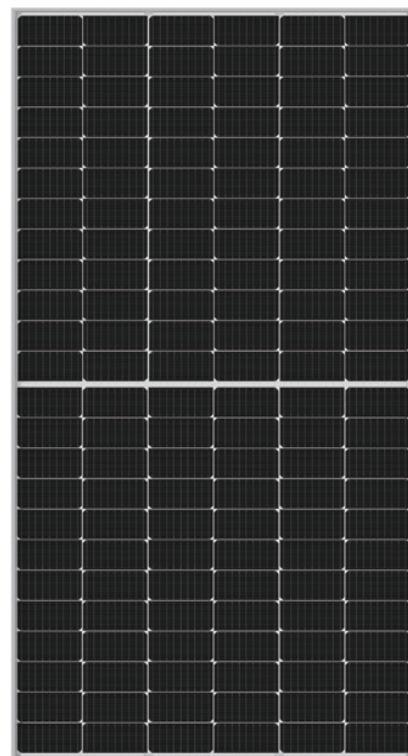
**Conforms with IEC 61215:2016,
IEC 61730:2016,
UL 61730 PV Standards, PID Test**



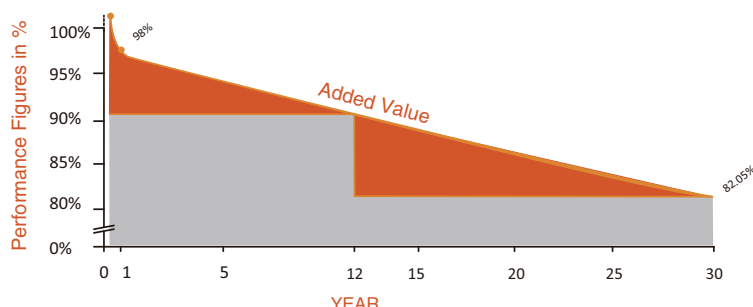
ISO9001, OHSAS18001, ISO14001 Certified



Application Class A, Safety Class II, Fire Rating C(IEC) or Type 1(US)



Also applicable for module
with black frame & backsheet



12-year

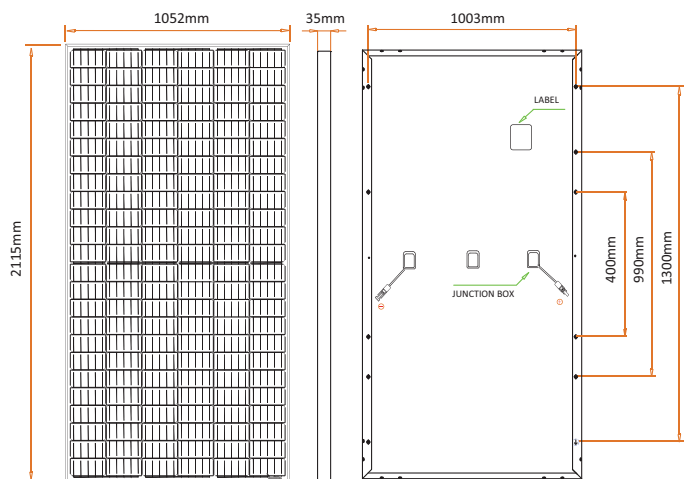
Material & Workmanship

30-year

Linear Power Output

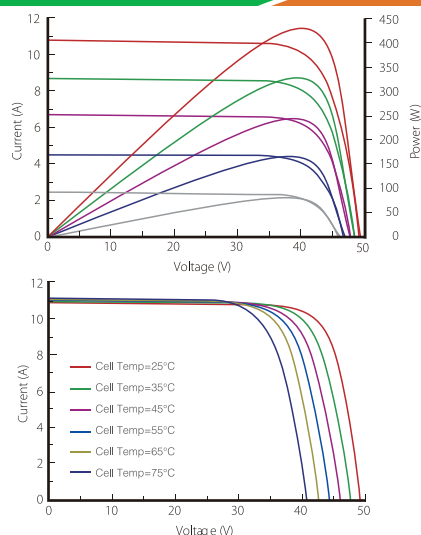
www.renesola.com

Dimensions



Drawing Only for Reference

I-V Curves



Electrical Characteristics STC

	JC430S-Abcp	JC435S-Abcp	JC440S-Abcp	JC445S-Abcp	JC450S-Abcp
Maximum Power (Pmax)	430W	435W	440W	445W	450W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	19.33%	19.55%	19.78%	20.00%	20.22%
Maximum Power Current (Imp)	10.60A	10.67A	10.75A	10.81A	10.87A
Maximum Power Voltage (Vmp)	40.6V	40.8V	41.0V	41.2V	41.4V
Short Circuit Current (Isc)	11.18A	11.25A	11.33A	11.38A	11.44A
Open Circuit Voltage (Voc)	49.2V	49.4V	49.6V	49.8V	50.0V

Values at Standard Test Conditions STC (AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics NOCT

	JC430S-Abcp	JC435S-Abcp	JC440S-Abcp	JC445S-Abcp	JC450S-Abcp
Maximum Power (Pmax)	318W	322W	326W	329W	333W
Maximum Power Current (Imp)	8.49A	8.54A	8.59A	8.64A	8.69A
Maximum Power Voltage (Vmp)	37.5V	37.7V	37.9V	38.1V	38.3V
Short Circuit Current (Isc)	9.00A	9.05A	9.10A	9.15A	9.20A
Open Circuit Voltage (Voc)	45.9V	46.1V	46.3V	46.5V	46.7V

Values at Normal Operating Cell Temperature, Irradiance of 800W/m², AM1.5, Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Characteristics

Cell Type	Mono P-Type, 166 x 166 (±1)mm, 144 (6x24) Half-Cut cells
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated, With Bypass Diodes
Dimension	*2115x1052x35mm
Output Cable	4mm ² , 300mm, length can be customized
Weight	24 Kg
Installation Hole Location	See Drawing Above

Characteristics

Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Pmax	-0.348%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

Packing Information

Container	20' GP	40' HQ
Pallets per Container	5	22
Pieces per Container	155	682

Maximum Ratings

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	20A