

SHIFTING • THE FUTURE

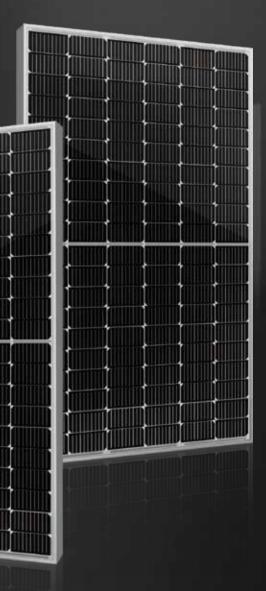


Multiple Upgrades Were Forged Into One





166 HALF-CELL SERIES



360W-375W



166 Half-Cell Series – The Amalgamation Of Advanced Technologies

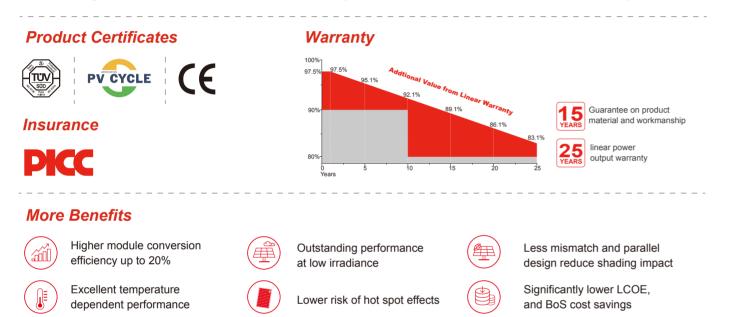
Seraphim redefined the high-efficiency module series by integrating 166mm silicon wafers with multi-busbar and half-cut cell technologies. The maximum module efficiency of the new 166 half-cell series is 20%, and the maximum power output is 375W.

Less Mismatch Loss

Instead of 6 internal strings of cells, the 166 HALF-CELL series module has 2 x 6 shorter ones. This design effectively deals with the mismatch happened between cells caused by shadow, out of sync performance degradation, ect.

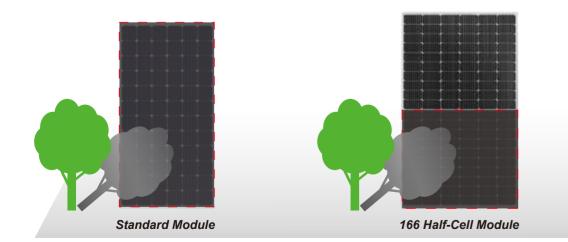
Less Internal Power Loss

The ribbon length of half-cell is shorter than normal cell. Calculated by Joule's law and Ohm' law, the power loss reduction is nearly 6%.



More Energy Yield, Less System CAPEX

Affected by a significant increase in product power, the application of the new 166 half-cell series in large commercial and utility power stations can significantly reduce LCOE, BOS, EPC and land costs. Projects over 1MW can save at least 5% CAPEX per watt by using new 166 half-cell series modules instead of standard modules.



Electrical Characteristics

Module Type	SRP-360-BMB-HV		SRP-365-BMB-HV		SRP-370-BMB-HV		SRP-375-BMB-HV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power at STC (Pmp)	360	268	365	271	370	275	375	279
Open Circuit Voltage (Voc)	41.2	38.5	41.4	38.7	41.6	38.9	41.8	39.1
Short Circuit Current (Isc)	11.16	8.88	11.26	8.92	11.34	9.01	11.41	9.08
Maximum Power Voltage (Vmp)	34.2	31.8	34.4	32.0	34.6	32.2	34.8	32.4
Maximum Power Current (Imp)	10.53	8.43	10.62	8.47	10.70	8.55	10.78	8.62
Module Efficiency at STC(nm)	19	9.27	19	9.54	19	9.80	20	0.07
Power Tolerance	(0,+4.99)							
Maximum System Voltage	1500 VDC							
Maximum Series Fuse Rating	20A							

STC: Irradiance 1000 W/m² module temperature 25°C AM=1.5;

Temperature Characteristics

Pmax Temperature Coefficient	-0.36 %/°C			
Voc Temperature Coefficient	-0.28 %/°C			
Isc Temperature Coefficient	+0.05 %/°C			
Operating Temperature	-40~+85 °C			
Nominal Operating Cell Temperature (NC	0CT) 45±2 °C			

Mechanical Specifications

External Dimensions	1776 x 1052 x 35 mm
Weight	20.0kg
Solar Cells	PERC Mono crystalline 166 x 83mm (1
Front Glass	3.2 mm AR coating tempered glass, lo
Frame	Anodized aluminium alloy
Junction Box	IP68,3 diodes
Output Cables	4.0 mm², Portrait:255mm(+)/355mm(-); Lands
Connector	MC4 Compatible
Mechanical Load	Front side 5400Pa/ Rear side 2400F

Packing Configuration

		1776 x 1052 x 35 mm	
Container	20'GP	40'GP	
Pieces per Pallet	30	30	
Pallets per Container	6	24	
Pieces per Container	180	720	

* 27+1 pieces per pallet is the special package which only suits for container transport. For details,please consult SERAPHIM.



