

## 160~190W VE-160~190-36M

### Electrical Performance

Module Type	VES-160-36M	VES-170-36M	VES-180-36M	VES-190-36M
Maximum Power at STC (Pmax)	160Wp	170Wp	180Wp	190Wp
Maximum Power Voltage (Vmp)	19.14V	19.48V	19.76V	20.15V
Maximum Power Current (Imp)	8.36A	8.73A	9.11A	9.43A
Open-circuit Voltage(Voc)	22.95V	23.49V	23.94V	24.35V
Short-circuit Current (Isc)	8.85A	9.33A	9.84A	10.18A
Cell Efficiency(%)	19.0%	20.0%	21.0%	22.0%
Module Efficiency(%)	15.0%	16.0%	17.0%	18.0%
Operating Temperature(°C)	-40°C+85°C			
Maximum system voltage	1500V DC			
Maximum rated current series	15A			
Power tolerance	0~+5W			
Temperature coefficients of Pmax	-0.42%/°C			
Temperature coefficients of Voc	-0.34%/°C			
Temperature coefficients of Isc	+0.061%/°C			
Nominal operating cell temperature (NOCT)	46±2°C			

STC: Irradiance 1000 W/m<sup>2</sup>; Module temperature: 25°C; AM=1.5

### Machanical Characteristics

Cell Type (mm) Mono-crystalline	156x156
No. of cells	36 (4x9)
Dimension (mm)	1520x700x3
Weight (kg)	3.2kg
Glass fiber plate	G11 0.5mm
Frame	
Junction Box	IP68 Rated
Output Cables	UL 14AWG/TUV 1x2.5 mm <sup>2</sup> ,Length:600mm

### Standard Packaging

Quantity/Carton	10 pcs/carton
Loading Quantity	20'GP 1200 pcs
	40'HC 2500 pcs

### Performance

Warranty	5 years
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