





Electrical Characteristics at STC

Type	SYP285S	SYP290S	SYP295S	SYP300S	SYP305S	SYP310S	SYP315S	SYP320S	
Maximum Power	P _{max} (W)	285W	290W	295W	300W	305W	310W	320W	
Tolerance Value for Power	%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%	
Maximum Power Voltage	V _{mpp} (V)	35.32	35.41	35.60	35.90	36.20	36.40	36.80	
Maximum Power Current	I _{mpp} (A)	8.07	8.19	8.29	8.36	8.43	8.52	8.70	
Open Circuit Voltage	V _{oc} (V)	44.80	44.80	44.80	44.90	44.92	44.94	45.02	
Short Circuit Current	I _{sc} (A)	8.48	8.63	8.70	8.85	8.95	9.15	9.34	
Module Efficiency	η	>14.68%	>14.94%	>15.20%	>15.46%	>15.72%	>15.98%	>16.24%	>16.49%

Performance at STC: Irradiance of 1000W/m², Module temperature 77±3.6°F (25±2°C)
AM 1.5 Power measurement tolerance: ±3%

Electrical Characteristics at NOCT

Type	SYP285S	SYP290S	SYP295S	SYP300S	SYP305S	SYP310S	SYP315S	SYP320S	
Maximum Power	P _{max} (W)	207.95	212.95	216.74	220.70	224.13	227.85	231.25	235.91
Maximum Power Voltage	V _{mpp} (V)	32.15	32.24	32.35	32.65	32.96	33.13	33.32	33.51
Maximum Power Current	I _{mpp} (A)	6.47	6.61	6.70	6.73	6.80	6.87	6.94	7.01
Open Circuit Voltage	V _{oc} (V)	40.60	40.72	41.01	41.38	41.76	42.02	42.29	42.52
Short Circuit Current	I _{sc} (A)	6.91	7.06	7.37	7.42	7.48	7.55	7.68	7.71

Performance at NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s
Power measurement tolerance: ±3%

Temperature Coefficients(Tc)

NOCT(Nominal Operating Cell temperature)	45±2°C
Temperature Coefficient of VOC(β)	-0.32%/°C
Temperature Coefficient of ISC(α)	+0.034%/°C
Temperature Coefficient of P _{max}	-0.40%/°C

Permissible Operating Conditions

Maximum System Voltage	1000 V
Operating Temperature Range	-40°C ~ +85°C
Maximum Surface Load Capacity	Test up to 5400Pa according to IEC61215 (Advanced test)
Resistance Against Hail	Maximum diameter of 1in.(25mm) impact speed of 51.5mph(23m/s)

Mechanical specifications

Cells	Polycrystalline cell with 3-busbars,6"(6x12)
Junction Box	IP67,combined with 3 by-pass diodes
Front Glass Thickness	4.0mm
Connecting Cable/Connector	MC4 compatible connector/4mm ² diameter, 900mm length
Frame Dimension	1956x992x40mm
Weight	23KG

Packing Features

Frame Height	40mm
Qty/Pallet (PCS)	28
Qty/40HC container (PCS)	672