

Electrical Characteristics(STC)

Maximum Power-PMAX (Wp)	425	430	435	440	445	450	455
Output Power Tolerance	0~+5Wp						
Optimum Operating Voltage(Vmp)(V)	40.5	40.7	40.9	41.1	41.3	41.5	41.7
Optimum Operating Current(Imp)(A)	10.50	10.57	10.64	10.71	10.78	10.85	10.92
Open Circuit Voltage (Voc) (V)	48.3	48.5	48.7	48.9	49.1	49.3	49.5
Short Circuit Current (Isc) (A)	11.23	11.31	11.39	11.46	11.53	11.60	11.66
Module Efficiency (%)	19.55%	19.78%	20.01%	20.24%	20.47%	20.70%	20.93%

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

Electrical Characteristics(NOCT)

Maximum Power-PMAX (Wp)	317	321	325	329	332	336	340
Optimum Operating Voltage(Vmp)(V)	37.7	37.9	38.1	38.3	38.5	38.6	38.8
Optimum Operating Current(Imp)(A)	8.42	8.47	8.53	8.59	8.64	8.70	8.75
Open Circuit Voltage (Voc) (V)	45.3	45.5	45.7	45.8	46.0	46.2	46.4
Short Circuit Current (Isc) (A)	9.08	9.15	9.21	9.27	9.33	9.38	9.43

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Temperature Ratings

NOCT(Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of PMAX	-0.40%/°C
Temperature Coefficient of VOC	-0.32%/°C
Temperature Coefficient of ISC	+0.05%/°C

Maximum Ratings

Operational Temperature	-40°C ~ 85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	20A

Do not connect Fuse in Combiner Box with two or more strings in parallel connection

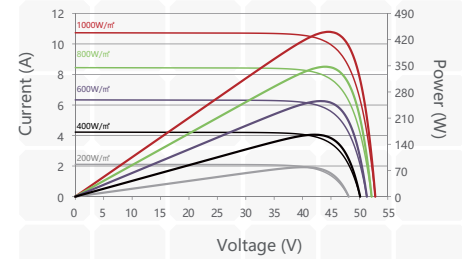
Certificates

TüV, CQC, CE

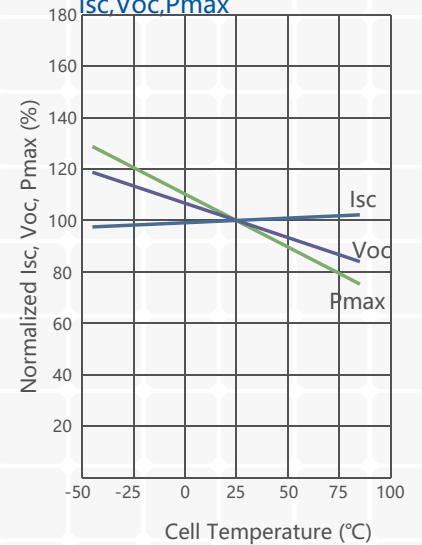
Packaging Configuration

Container	40'HQ	20'GP
Piece per Pallet	30	
Pallet per Container	22	5
Piece per Container	660	150

Current-Voltage & Power-Voltage Curve(450W)



Temperature Dependence of Isc, Voc, Pmax



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