

Electrical Characteristics at Standard Test Conditions (STC)

Spec/Model	Unit	SPP445NHJH	SPP450NHJH	SPP455NHJH	SPP460NHJH	SPP465NHJH
Max-Power (Pm)	W	445	450	455	460	465
Power Tolerance	W	0-+5				
Max-Power Voltage (Vm)	V	42.5	43.7	43.9	44.1	44.3
Max-Power Current (Im)	A	10.23	10.3	10.37	10.44	10.50
Open-Circuit Voltage (Voc)	V	52.5	52.7	52.9	53.1	53.3
Short-Circuit Current (Isc)	A	10.72	10.79	10.86	10.93	10.98
Module Efficiency (nm)	%	20.1	20.3	20.5	20.7	21.0

STC: AM 1.5, Irradiation 1000W/M2, Module Temperature 25°C

Electrical Characteristics at Nominal Module Operating Temperature(NMOT)

Spec/Model	Unit	SPP445NHJH	SPP450NHJH	SPP455NHJH	SPP460NHJH	SPP465NHJH
Max-Power (Pm)	W	334	338	342	346	350
Max-Power Voltage (Vm)	V	40.0	40.2	40.4	40.6	40.8
Max-Power Current (Im)	A	8.35	8.41	8.47	8.53	8.58
Open-Circuit Voltage (Voc)	V	48.9	49.1	49.3	49.5	49.7
Short-Circuit Current (Isc)	A	8.85	8.91	8.97	9.02	9.07

NMOT: Irradiation 800W/m2, ambient temperature 20°C, Wind Speed 1m/s

Temperature Coefficient

Nominal Module Operating Temperature	43±2°C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	0.06%/°C

Package

Transportation	Container Size	Quantity(pcs)	Quantity (per pallet)
Container	40'HC	682	31

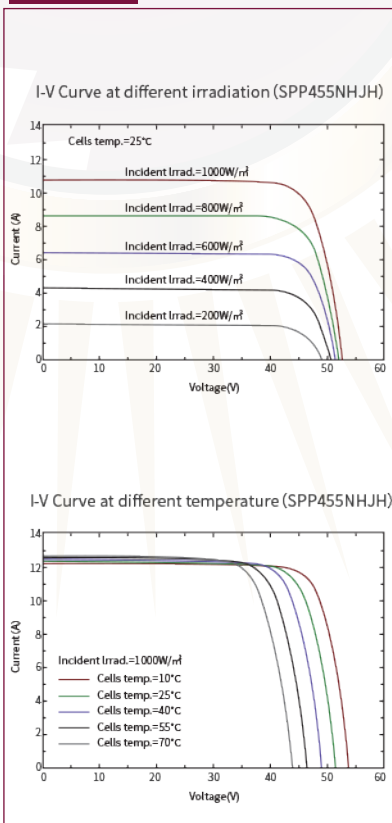
Mechanical Characteristics

Dimension(LxWxH)	2006mmx1106mmx35mm
Weight	26kg
Glass Type	High Transmittance Anti-reflective Coated Tempered Glass /3.2mm
Solar Cell	156(12x13)/Mono / 162.75*81.375mm
Encapsulant	EVA
Frame	Anodized Aluminum Alloy / Silver
Junction Box	IP67 / IP68
Cable	4mm2,350mm (+)/ 150mm (-);Customizable
Connector	MC4 Compatible

Operating Conditions

Max System Voltage	DC1500V(TUV)
Max Fuse Rated Current	15A
Operating Temperature Range	-40°C~+85°C
Mechanical Load	5400Pa(front)/2400Pa(rear)
Max Allowable Hail Load	φ25mm hail, from 1m of distance at 23 m/s
Application Class	Class A

I-V Curve



Module Size

