



### Mono-Crystalline 220W ~ 230W (156x156) Solar Panels Specification

Model No.:	HSCK-220M	HSCK-225M	HSCK-230M
Maximum Power (W)	220W	225W	230W
Optimum Power Voltage (Vmp)	29.10 V	29.10 V	29.10 V
Optimum Operating Current (Imp)	7.56 A	7.73 A	7.90 A
Open Circuit Voltage (Voc)	36.20 V	36.20 V	36.20 V
Short Circuit Current (Isc)	8.32 A	8.51 A	8.69 A
Cell Efficiency (%)	15.10%	15.40%	15.80%
Cell Sizes	156x156		
Size of Module (mm)	1640*990*45		
Frame (Material Corners, etc.)	Aluminum-alloy		
Weight Per Piece(KG)	21		
Tolerance Wattage (e.g. +/-3%)	±3%		
Temperature Coefficients of Isc (%) °C	±0.05		
Temperature Coefficients of Voc (%) °C	-0.33		
Temperature Coefficients of Pm (%) °C	-0.23		
Temperature Range	-40°C to +85°C		
Warranty	90% of 10 years, 80% of 25 years.		
Standard Test Conditions	AM1.5 1000W/m <sup>2</sup> 25 +/-2°C		

