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|------------------------------|--------|--------|--------|--------|--------|
| Open Circuit Voltage-Voc(V) | 44.5V | 44.5V | 44.5V | 45.1V | 45.4V |
| Short Circuit Current-Isc(A) | 5.52A | 5.66A | 5.81A | 5.88A | 5.98A |
| Maximum Power Voltage-Vmp(V) | 36.5V | 36.6V | 36.7V | 36.8V | 37V |
| Maximum Power Current-Imp(A) | 5.21A | 5.33A | 5.45A | 5.58A | 5.68A |
| Module Efficiency (%) | 14.88% | 15.27% | 15.67% | 16.06% | 16.45% |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA(NOCT)

| | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|
| Maximum Power-Pmax (Wp) | 142W | 145W | 148W | 152W | 156W |
| Open Circuit Voltage-Voc (V) | 40.93V | 41.10V | 41.27V | 41.44V | 41.61V |
| Short Circuit Current-Isc (A) | 4.47A | 4.48A | 4.59A | 4.67A | 4.76A |
| Maximum Power Voltage-Vmp(V) | 33.55V | 33.82V | 34.08V | 34.56V | 34.84V |
| Maximum Power Current-Imp(A) | 4.21A | 4.29A | 4.36A | 4.42A | 4.49A |

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

MECHANICAL DATA

| | |
|--------------------|--|
| Solar cells | Mono-crystalline 156x93mm, 4 or 5 Bus bars |
| Cell configuration | 72 cells(6x12) |
| Module dimensions | 1217X992X35mm |
| Weight: | 13KGS |
| Front Cover | 3.2mm Tempered Glass |
| Frame Material | Anodized Aluminum Alloy |
| J-BOX | IP65 or IP67, 6 Diodes |
| Cable | 4mm2(IEC)/12AWG(UL),1000mm |
| Connectors | MC4 or MC4 Comparable |
| Standard Packaging | 29pcs/pallet |

TEMPERATURE & MAXIMUM RATINGS

| | |
|---|---------------------|
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |
| Temperature Coefficient of Voc | -0.32%/°C |
| Temperature Coefficient of Isc | 0.05%/°C |
| Temperature Coefficient of Pmax | -0.39%/°C |
| Operational Temperature | -10~+85°C |
| Maximum System Voltage | 1000V(IEC)/600V(UL) |
| Max Series Fuse Rating | 10A |
| Limiting Reverse Current | 10A |

PACKAGING CONFIGURATION

| | | |
|---------------------------------|-----------------|-----------------|
| | 40HQ | 20GP |
| Number of modules per container | 1320pcs | 604pcs |
| Package | 2pcs/carton box | 2pcs/carton box |
| Package Weight | 25kg/carton box | 25kg/carton box |
| Package Number | 660carton boxes | 302carton boxes |