



### Mechanical Characteristics

|                       |   |
|-----------------------|---|
| Number of cells (pcs) | 120   |
| Size of cell (mm)     | 182*91  |
| Type of cell          | Mono  |
| Size of module (mm)   | 1909*1134*40  |
| Weight (kg)           | 22.9  |
| Junction box          | IP68  |
| Fire class            | Class C   |
| Warranty period       | 15 years  |
| Cables/connectors     | H1Z2Z2-K 4mm <sup>2</sup> 01C1/05-8 /TL-Cable01S/ Staubli MC4 |

### Maximum Ratings

|                           |                                      |
|---------------------------|--------------------------------------|
| Operating Temperature(°C) | -40~85                               |
| Operating Humidity(%)     | 5~85                                 |
| Allowable Hail Load       | 25mm ice-ball with velocity of 23m/s |

### Packing Configuration

|                        |                |
|------------------------|----------------|
| Pieces per pallet      | 27             |
| Size of packing (mm)   | 1940*1140*1275 |
| Weight of packing (kg) | 618            |
| Pieces per container   | 648            |
| Size of container      | 40' HC         |

### Electrical Characteristics

| STC                        | EG-430 M60-HLV                           | EG-435 M60-HLV | EG-440 M60-HLV | EG-445 M60-HLV | EG-450 M60-HLV |
|----------------------------|--|----------------|----------------|----------------|----------------|
| Pmax (W)                   | 430                                      | 435            | 440            | 445            | 450            |
| Vmp (V)                    | 34.24                                    | 34.47          | 34.71          | 34.93          | 35.16          |
| Imp (A)                    | 12.56                                    | 12.62          | 12.68          | 12.74          | 12.80          |
| Voc (V)                    | 41.04                                    | 41.27          | 41.51          | 41.73          | 41.96          |
| Isc (A)                    | 13.31                                    | 13.37          | 13.43          | 13.49          | 13.55          |
| Module efficiency (%)      | 19.86                                    | 20.09          | 20.32          | 20.55          | 20.78          |
| Maximum system voltage (V) | 1500                                     |                |                |                |                |
| Fuse Rating Current (A)    | 30                                       |                |                |                |                |
| Tolerance (%)              | Pmax: ±3% Binning: ±5W、Voc: ±5%、Isc: ±5% |                |                |                |                |
| Temperature coefficient    | Pmax (%/°C)                              | -0.390         |                |                |                |
|                            | Isc (%/°C)                               | 0.039          |                |                |                |
|                            | Voc (%/°C)                               | -0.295         |                |                |                |

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

| NOCT            | EG-430 M60-HLV         | EG-435 M60-HLV | EG-440 M60-HLV | EG-445 M60-HLV | EG-450 M60-HLV |
|-----------------|------------------------|----------------|----------------|----------------|----------------|
| Pmax (W)        | 325                    | 329            | 333            | 337            | 341            |
| Vmp (V)         | 31.62                  | 31.85          | 32.09          | 32.32          | 32.54          |
| Imp (A)         | 10.28                  | 10.33          | 10.38          | 10.43          | 10.48          |
| Voc (V)         | 38.17                  | 38.39          | 38.61          | 38.81          | 39.03          |
| Isc (A)         | 10.89                  | 10.94          | 10.99          | 11.04          | 11.09          |
| Power tolerance | Pmax: ±3% Binning: ±5W |                |                |                |                |

NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### I-V Curves

