

Qualifications and Certificates

Manufacturing in accordance

- IEC EN 61215
- IEC EN 61730-1
- IEC EN 61730-2

Fire Classification

- IEC EN 61730-2 MST24
- EN 13501

Colour Stability

- EN 1096-3

Ammonia Corrosion

- IEC EN 62716

Hail test planned end of 2022

Warranty

- 10** year Manufacturing defects
- 12** year Limited, 90% output power
- 30** year Limited, 80% output power



Electrical parameters at Standard Test Conditions (STC)

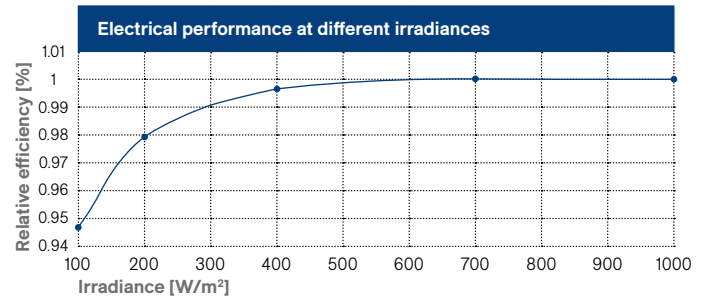
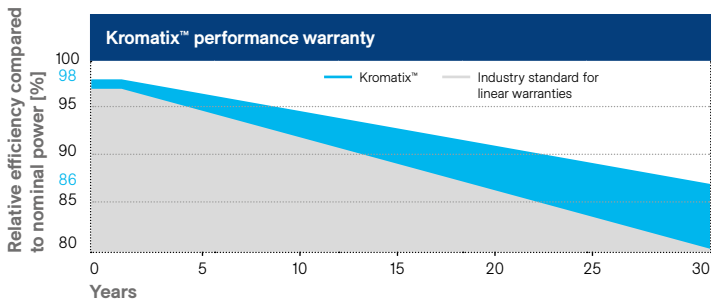
| Model | | Dark Grey GT-380 | Grey GT-350 | Light Grey GT-410 | Blue GT-215 | Bluish-Green GT-800 | Green GT-860 | Bronze GT-430 | Brass GT-470 | Gold GT-100 | Orange GT-550 |
|--------------------------------|-----|---------------------|----------------|----------------------|----------------|------------------------|-----------------|------------------|-----------------|----------------|------------------|
| Peak power P_{MPP} | [W] | 193 | 182 | 182 | 175 | 187 | 186 | 179 | 187 | 178 | 176 |
| Rated voltage U_{MPP} | [V] | 23 | | | | | | | | | |
| Rated current I_{MPP} | [A] | 8.3 | 7.8 | 7.8 | 7.5 | 8.1 | 8.0 | 7.7 | 8.0 | 7.7 | 7.5 |
| Open circuit voltage U_{oc} | [V] | 27.1 | | | | | | | | | |
| Short circuit current I_{sc} | [A] | 8.9 | 8.4 | 8.4 | 8.1 | 8.7 | 8.6 | 8.3 | 8.6 | 8.2 | 8.1 |
| Module efficiency | [%] | 16.4% | 15.5% | 15.5% | 14.9% | 15.9% | 15.8% | 15.3% | 15.9% | 15.2% | 14.9% |
| Peak power tolerance | [W] | ±5 | | | | | | | | | |

STC:1000W/m² irradiance, 25°C cell temperature, AM1.5 g spectrum according to EN 60904-3. Measurement tolerance Pmax ±5%, Voc and Isc ±5%

| Properties for system design | | |
|------------------------------|------|-------------|
| Temperature range | [°C] | -40 to +105 |
| Max. system voltage | [V] | 1000 |
| Max. series fuse rating | [A] | 15 |
| Limiting reverse current | [A] | 15 |
| PV module classification | | Class II |

| Mechanical data | | |
|------------------------|------|--|
| Dimensions (W x H x D) | [mm] | 700 x 1680 x 9 |
| Weight | [kg] | 26 |
| Solar cells | | 40 cells, monocrystalline Si, 159 x 159 mm |
| Cells encapsulation | | Ethyle Vinyl Acetate (EVA) |
| Front | | Tempered solar glass Kromatix™ |
| Back | | Heat strenthened glass 4 mm |
| Junction box | | IP 67 with 2 bypass diode / split |
| Cable | | Solar cable 4mm ² , length > 1000mm |
| Cable connectors | | Staubli MC4 |

| Thermal Characteristics | | | |
|--------------------------------------|------|-------|--------|
| Temperature coefficient of Isc | | [%/K] | +0,04 |
| Temperature coefficient of Voc | | [%/K] | -0.27 |
| Temperature coefficient of Pmax | | [%/K] | -0.36 |
| Nominal Module Operating Temperature | NMOT | [°C] | 43 ± 3 |



PV module plan

