

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)

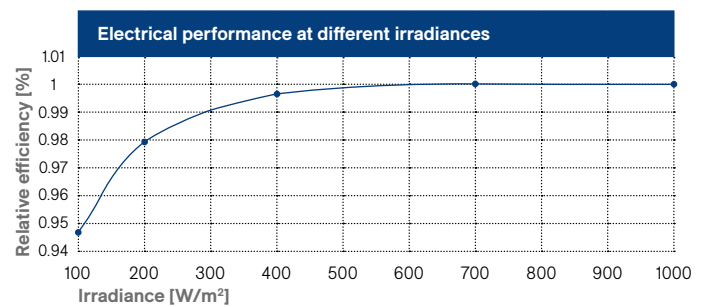
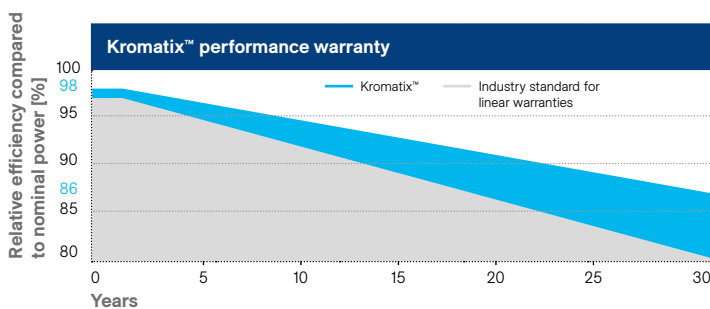
Model		Dark Grey GT-380	Grey GT-350	Light Grey GT-410	Blue GT-215	Bluish-Green GT-800	Green GT-860	Bronze GT-430	Brass GT-470	Gold GT-100	Orange GT-550
Peak power P_{MPP}	[W]	154	146	146	140	150	149	143	149	143	141
Rated voltage U_{MPP}	[V]	18.4									
Rated current I_{MPP}	[A]	8.3	7.8	7.8	7.5	8.1	8.0	7.7	8.0	7.7	7.5
Open circuit voltage U_{oc}	[V]	21.7									
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	[%]	16.2%	15.3%	15.3%	14.8%	15.8%	15.7%	15.1%	15.7%	15.0%	14.8%
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]	1330 x 715 x 9
Weight	[kg]	21
Solar cells		32 cells, monocrystalline Si, 159 x 159 mm
Cells encapsulation		Ethyle Vinyl Acetate (EVA)
Front		Tempered solar glass Kromatix™
Back		Heat strengthened glass 4 mm
Junction box		IP 67 with 4 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

