

### Qualifications and Certificates

Manufacturing in accordance



Fire Classification



Colour Stability



Ammonia Corrosion



Hail test planned end of 2022

### Warranty



Manufacturing defects



Limited, 90% output power



Limited, 80% output power



Electrical parameters at Standard Test Conditions (STC)

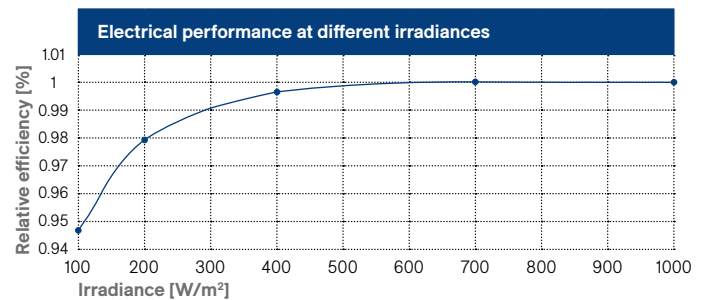
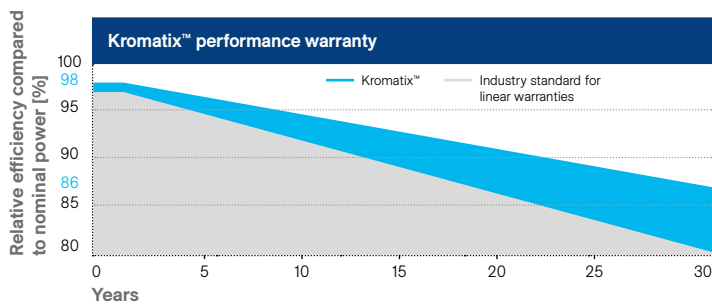
Model		Dark Grey GT-380	Grey GT-350	Light Grey GT-410	Blue GT-215	Bluish-Green GT-800	Green GT-860	Bronze GT-430	Brass GT-470	Gold GT-100	Orange GT-550
Peak power $P_{MPP}$	[W]	174	164	164	161	169	168	161	168	160	158
Rated voltage $U_{MPP}$	[V]	20.7									
Rated current $I_{MPP}$	[A]	8.3	7.8	7.8	7.7	8.1	8.0	7.7	8.0	7.7	7.5
Open circuit voltage $U_{oc}$	[V]	24.4									
Short circuit current $I_{sc}$	[A]	8.9	8.4	8.4	8.3	8.7	8.6	8.3	8.6	8.2	8.1
Module efficiency	[%]	16.6%	15.7%	15.7%	15.1%	16.1%	16.0%	15.4%	16.1%	15.4%	15.1%
Peak power tolerance	[W]	±5									

STC: 1000W/m<sup>2</sup> 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]	1005 x 1040 x 9
Weight	[kg]	23
Solar cells		36 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 3 bypass diode / split
Cable		Solar cable 4mm <sup>2</sup> , 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

