

CRYSTALLINE GLASS-GLASS PHOTOVOLTAIC MODULES - 210 / 215 / 220

- Solid and reliable
- Cells High yield
- Approved and certified by TUV

Highest sturdiness and reliability

Improved energy yield by f|solarfloat HT glass (quartz hard AR coating)

Enhanced fire resistance by glass back sheet

Best-in-class mechanical load: up to 5400 Pa

Power tolerance +0/+10 Wp, power range 210 Wp - 220 Wp in 5 Wp steps

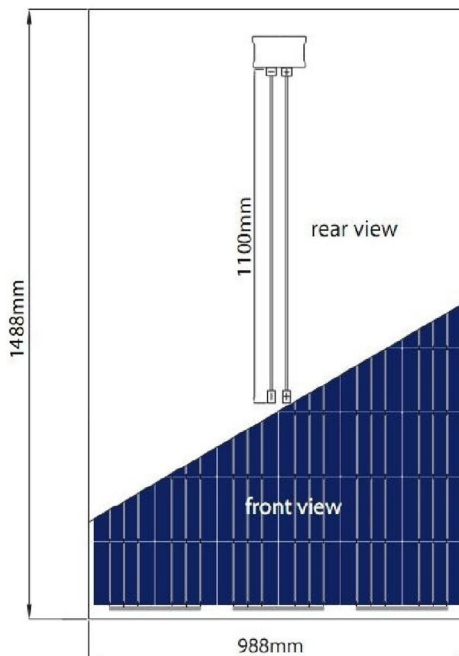
IP67 rated Junction Box



Made in Germany

Best-in-class power output warranty of 30 years with linear decline

12 year product warranty



Typical Data at Standard Test Conditions (STC)

		H - 210	H - 215	H - 220	
Nominal Peak Power	P _{mpp}	210	215	220	Wp
Power Tolerance	0 - 10 Wp				
Power density		143	146	150	Wp/m ²
Peak Power Voltage	V _{mpp}	27.3	27.4	27.6	V
Peak Power Current	I _{mpp}	7.7	7.85	7.97	A
Open Circuit Voltage	V _{oc}	33.3	33.5	33.6	V
Short Circuit Current	I _{sc}	8.17	8.3	8.44	A
Module efficiency reduction @ 200 W/ m ²	-0.8% Abs.				

STC: Standard Test Conditions; 1000 W/m², 25°C AM 1.5

Typical Data at Normal Operating Cell Temperature conditions (NOCT)

		H - 210	H - 215	H - 220	
T _{NOCT}		45°	45°	45°	C
Peak Power	P _{mpp}	152	156	159	Wp
Peak Power Voltage	V _{mpp}	24.9	25.0	25.1	V
Peak Power Current	I _{mpp}	6.13	6.24	6.34	A
Open Circuit Voltage	V _{oc}	31.0	31.2	31.3	V
Short Circuit Current	I _{sc}	6.62	6.73	6.84	A

NOCT: Irradiance level 800 W/m², spectrum AM 1.5, wind velocity 1 m/s and ambient temperature 20° C

Thermal Characteristics

		H - 210	H - 215	H - 220	
Temperature Coefficient	I _{sc}		0.07		%/K
Temperature Coefficient	V _{oc}		-0.34		%/K
Temperature Coefficient	P _{mpp}		-0.48		%/K

Measurement tolerances P_{mpp} @ STC ±5% all other electrical parameters ±10%

Tested Operating Conditions

		H - 210	H - 215	H - 220
Temperature		da -40°C a 85°C		
Max Load		5400 Pascal front and 2400 Pascal back depending on the mounting method		

Dimensions H x W x D	1488 x 988 x 35 mm
Weight	23 Kg
Maximum system voltage	1000 V
Limiting reverse current I _R	15 A
Cells	54 x 6" poly crystalline
Frame	Frameless
Glass	Front 2.8 mm highly transparent low-iron tempered safety glass. Rear 2.8 mm heat strengthened safety glass
Junction Box	Universal Junction Box by Yamaichi, rated IP67 and 3 bypass diodes
Cabling	2 x 4 mm ² cabling with MC-4 interchangeable connectors

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