

CRYSTALLINE GLASS-GLASS PHOTOVOLTAIC MODULES - 235 / 240 / 245 / 250

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

Highest sturdiness and reliability

Improved energy yield by float 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 $\pm 0/+10$ Wp, power range 235 Wp - 250 Wp in 5 Wp steps

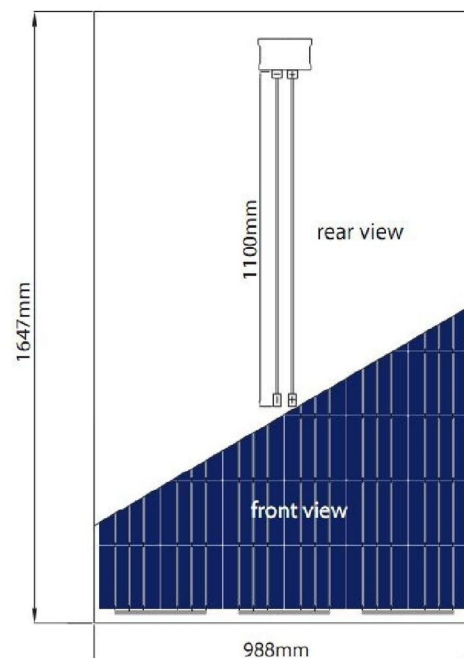
IP67 rated Junction Box



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 - 235	H - 240	H - 245	H - 250	
Nominal Peak Power P _{mpp}	235	240	245	250	Wp
Power Tolerance 0 - 10 Wp					
Power density	142	145	148	151	Wp/m ²
Peak Power Voltage V _{mpp}	30.4	30.5	30.7	30.9	V
Peak Power Current I _{mpp}	7.74	7.87	7.98	8.1	A
Open Circuit Voltage V _{oc}	37.1	37.2	37.4	37.5	V
Short Circuit Current I _{sc}	8.21	8.33	8.45	8.58	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 - 235	H - 240	H - 245	H - 250	
T _{NOCT}	45°	45°	45°	45°	C
Peak Power P _{mpp}	170	175	178	182	Wp
Peak Power Voltage V _{mpp}	27.7	27.8	28.0	28.2	V
Peak Power Current I _{mpp}	6.15	6.26	6.35	6.44	A
Open Circuit Voltage V _{oc}	34.6	34.7	34.8	34.9	V
Short Circuit Current I _{sc}	6.66	6.75	6.85	6.95	A

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

Thermal Characteristics

	H - 235	H - 240	H - 245	H - 250	
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 - 235	H - 240	H - 245	H - 250
Temperature	-40°C to 85°C			
Max Load	5400 Pascal front and 2400 Pascal back depending on the mounting method			

Dimensions H x W x D	1647 x 988 x 35 mm
Weight	25 Kg
Maximum system voltage	1000 V
Limiting reverse current I _R	15 A
Cells	60 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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