

SD410

Mechanical Characteristics

Length (mm)	1660
Width (mm)	672
Height (mm)	45
Weight (Kg)	13
Junction Box	1 x Tyco junction Box with 2 Bypass diodes
Cables	with Tyco Connectors
Front Substrate	HiT SM, ARC White Glass 3.2mm thickness
Cells	40 polycrystalline cells (156 x 156 mm)
Encapsulation Material	EVA - Ethylene Vinyl Acetate
Back Substrate	Composite Sheet Tedlar or APA
Frame	45 mm Aluminum profile - Natural or Black Anodized
Unframed Dimensions	1652 x 664 x 5 mm (LxWxH) (Tol. +/- 2mm)



Electrical Characteristics

Power Class	Wp	165	160	155	150	145	140
Power Tolerance		+3%/- 0	+3%/- 0	+3%/- 0	+3%/- 0	+3%/- 0	+3%/- 0
Min Power	Wp	165	160	155	150	145	140
Voltage at Max Power (Vmp)	V	20.7	20.3	19.9	19.6	19.2	18.8
Current at Max Power (Imp)	A	8.02	7.90	7.80	7.65	7.55	7.45
Open circuit Voltage (Voc)	V	24.8	24.4	23.9	23.5	23.0	22.6
Short Circuit Current (Isc)	A	8.43	8.30	8.20	8.00	7.90	7.80
Maximum System Voltage	V	1000	1000	1000	1000	1000	1000

Voltage temperature correction factor (Open Circuit)	-0.35%/K
Current Temperature correction factor (Short Circuit)	0.05%/K
Power Temperature correction Factor	-0.44 %/K
NOCT	45°C
(STC) Standard testing conditions :	1000 W/m ² , AM 1.5, 25°C

Use Conditions

Temperature Range	-40 °C to + 85°C
Hail Test	Limited to a diameter of 28mm at an impact speed of 86 km/h
Test Load	Certified up to 5400 Pa according to IEC 61215 Ed. 2

Certification

IEC 61215:2005 Ed. 2	Certified
EN6170 Class 1 & Class 2	Certified

Waranty

Product	3 years
Power	Terrestrial: 25 years 80% yield Marine: 10 years / 90% yield

