



Picture shown may not reflect actual configuration

Features

Proven Energy Yield

- 19.0% efficiency
- -0/+5W positive power tolerance

Excellent Performance in Low Irradiance

- Outstanding power output in low irradiance conditions such as dawn, dusk, and cloudy days.

Anti-PID

- Anti-PID (Potential-induced degradation) techniques for processing solar cells and encapsulation of modules applied.

Adaptability to Harsh Environments

- Excellent anti-salt mist and anti-ammonia capability; adaptable to harsh environments such as seaside and farms.

Robust Frame

- Robust module construction enables installed module to withstand 5400 Pa front side static loading and 25mm hail impact at 23m/s.

Tests

- IEC 61215, IEC61730 Class II and UL1703 Type 4 fire rating
- ISO 9001:2008: ISO Quality Management System
- ISO 14001:2004: ISO Environment Management System
- TS62941: Guideline for module design qualification and type approval
- OHSAS 18001: 2007 Occupational Health and Safety

**PVC380 MP03 H
Monocrystalline Halfcut
Photovoltaic Module**

The monocrystalline halfcut photovoltaic modules feature high efficiency low light induced degradation (LID) Mono PERC (Passivated Emitter Rear Cell) technology and provide excellent performance under low temperature or low light environment. The modules provide high power output at high levels of reliability.

Certifications (pending receipt of certificate)

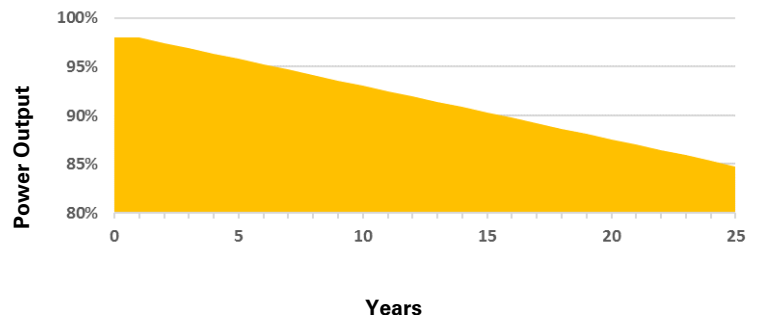
- Available listing: TUV SUD, CSA, CE

Worldwide Product Support

- Cat® dealers have over 1,800 dealer branch stores operating in over 200 countries
- Your local Cat dealer provides extensive pre-sale and post-sale support, including design consultation, service contracts, and all maintenance agreement.

Module Warranty

- 10-year warranty for materials and processing
- 25-year warranty for linear power output. Produces more than 98% power in the first year, then declining by 0.55% per year, ending at 84.8% power after 25 years.



Module Rating at Standard Test Conditions (STC)

1000W/m², AM 1.5, 25°C **PVC380 MP03 H**

Nominal Power (-0/+5W)	P _{MPP} (W)	380
Voltage at P _{MAX}	V _{MPP} (V)	40.6
Current at P _{MAX}	I _{MPP} (A)	9.36
Open Circuit Voltage	V _{OC} (V)	49.0
Short Circuit Current	I _{SC} (A)	9.96
Module Efficiency	%	19.0
Maximum System Voltage	V _{SYS} (V)	1500
Maximum Series Fuse	I _{CF} (A)	20A

Rating at Nominal Operating Cell Temperature

800W/m², 20°C air temperature, AM 1.5, 1m/s wind speed

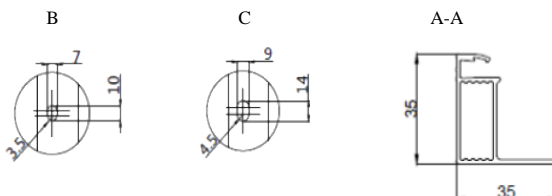
Nominal Power	P _{MPP} (W)	281.5
Voltage at P _{MAX}	V _{MPP} (V)	37.5
Current at P _{MAX}	I _{MPP} (A)	7.50
Open Circuit Voltage	V _{OC} (V)	45.7
Short Circuit Current	I _{SC} (A)	8.02

TEMPERATURE CHARACTERISTICS

Module Operating Temperature Range	(°C)	-40 to +85
Temperature Coefficient of P _{MPP}	T _K (P _{MPP})	-0.370%/°C
Temperature Coefficient of V _{OC}	T _K (V _{OC})	-0.286%/°C
Temperature Coefficient of I _{SC}	T _K (I _{SC})	+0.057%/°C

MECHANICAL DETAILS

Length	2004 mm (78.9 in)
Width	996 mm (39.2 in)
Thickness	35 mm (1.4 in)
Weight	23 kg (50.7 lbs.)
Leadwire	4 mm ² , 300 mm
Connectors	MC4
Cell Type	Monocrystalline, 144 cells per panel
Safety Class	Class II
Frame Material	Aluminum
Front Side Max Static Load	5400 Pa
Rear Side Max Static Load	2400 Pa
Hailstone Test	25mm hailstone at 23 m/s



Units: mm

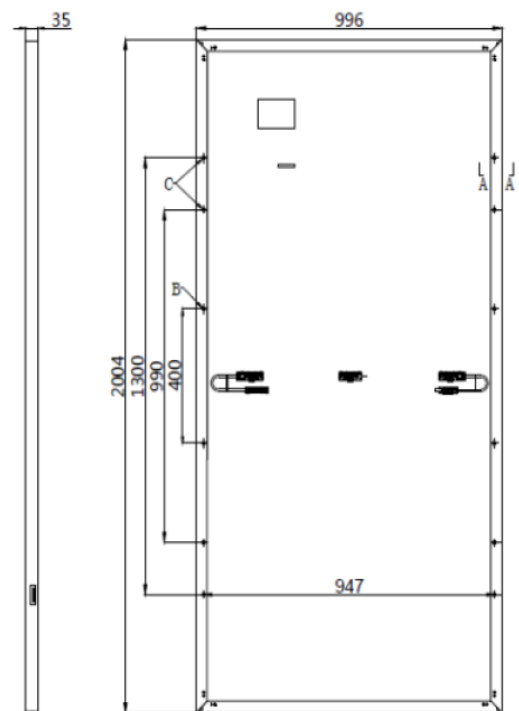
Tolerance:

Length: ±2mm

Width: ±2mm

Height: ±1mm

Pitch-row: ±1mm



Materials and specifications are subject to change without notice.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.