

# GF 110

110 Watt Photovoltaic Module



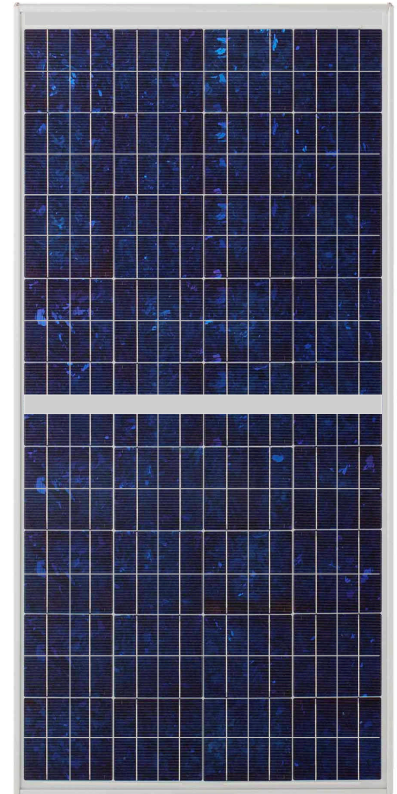
High-voltage photovoltaic module using silicon nitride coated multicrystalline silicon cells.

## Performance

Rated power ( $P_{max}$ )	110W
Power tolerance	$\pm 5\%$
Nominal voltage	48V
Limited Warranty <sup>1</sup>	25 years

## Configuration

GF 110 Clear universal frame with MPro J-Box and polarized Multicontact (MC) connectors



## Electrical Characteristics

### GF110

Maximum power ( $P_{max}$ )	110 W
Voltage at Pmax ( $V_{mp}$ )	66 V
Current at Pmax ( $I_{mp}$ )	1.67 A
Warranted typical power $P_{max}$	110 W
Short-circuit current ( $I_{sc}$ )	1.97 A
Open-circuit voltage ( $V_{oc}$ )	86.5 V
Temperature coefficient of $I_{sc}$	$(0.065 \pm 0.015)\% / ^\circ C$
Temperature coefficient of $V_{oc}$	$-(320 \pm 10)mV / ^\circ C$
Temperature coefficient of power	$-(0.5 \pm 0.05)\% / ^\circ C$
NOCT (Air 20°C; Sun 0.8kW/m <sup>2</sup> ; wind 1m/s)	47 $\pm$ 2°C
Maximum series fuse rating	15A (S); 20A (U)
Maximum system voltage	600 V (US NEC rating) 600 V (IEC rating)

## Mechanical Characteristics

Dimensions Length: 1555mm (61.2") Width: 680mm (26.8") Depth: 50mm (1.97")

Weight 13.5 kg (29.8 pounds)

Solar Cells 144 cells in a 8x18 or 4x32 matrix connected in series

Output Cables RHW AWG type (2.5mm<sup>2</sup>) cable with polarized weatherproof DC rated MultiContact connectors; full lengths cables - 1100mm (-) and 1100mm (+)

Junction Box MC low profile Junction boxes; inside well protected 4 by-pass diodes per box. Weatherproof box IP65 including cable fittings accepting 6-12mm diameter cable.

Diodes MC Electronics technology includes for every 18 cells, a Schottky by-pass diode integrated into the circuit board in the Junction box and in separate mini-cable boxes

Construction Front: High-transmission 3.2mm (1/8<sup>th</sup> inch) tempered glass; Back: Tedlar; Encapsulant: proven Fast Cure UV-resistant EVA

Frame Clear anodized aluminum alloy type 6063T6 Universal frame; Color: silver

1. Module Warranty: 25-year limited warranty of 80% power output; 12-year limited warranty of 90% power output; 5-year limited warranty of materials and workmanship. See your local representative for full terms of these warranties.
2. These data represent the performance of typical GF 101 products, and are based on measurements made in accordance with ASTM E1036 corrected to SRC (STC.)

