

550W N-Type TOPCon Bifacial Solar Module

High-efficiency 144 half-cut TOPCon bifacial module · Non-DCR

Electrical Characteristics (STC)

Rated Power (Pmax)	550 Wp
Module Efficiency	21.31 %
Voltage at Pmax (Vmp)	41.70 V
Current at Pmax (Imp)	13.48 A
Open-Circuit Voltage (Voc)	50.43 V
Short-Circuit Current (Isc)	14.03 A
Power Tolerance	+/- 2 %
Max System Voltage	1500 V DC
Max Series Fuse Rating	35 A

Temperature Characteristics

Temp. Coefficient of Pmax	-0.32 %/°C
Temp. Coefficient of Voc	-0.26 %/°C
Temp. Coefficient of Isc	+0.045 %/°C
NOCT	45 +/- 2 °C
Operating Temperature	-40 °C to +85 °C

Mechanical Characteristics

Cell Type	N-Type TOPCon (Monocrystalline)
No. of Cells	144 (half-cut)
Front Glass	3.2 mm tempered, AR-coated
Backsheet	PVDF (white)
Frame	Silver anodized aluminium alloy
Dimensions	2277 x 1133 x 35 mm
Weight	29 kg
Junction Box	IP68, 3-diode, split type
Connectors	MC4 type
Cable	4 mm² solar cable, 300 mm

Warranty & Compliance

Product Warranty	12 years
Performance Warranty	30 years
First-year Degradation	2.0 %
Annual Degradation (yr 2-27)	0.55 %
DCR Status	Non-DCR
Standards	IEC 61215 / IEC 61730 (typical)

Manufacturer: Fujiyama (UTL Solar). Specifications per Fujiyama official product listing; verify exact wattage bin and DCR/Non-DCR status against the manufacturer datasheet for the supplied batch. Source: fujiyamautlsolar.com