

Superior Solar PV Modules - Dependable British Brand - 30 Year British Warranty



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Model: AS-S144-M10H

POWER OUTPUT

530-550W Mono Half Cut

Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production

Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs

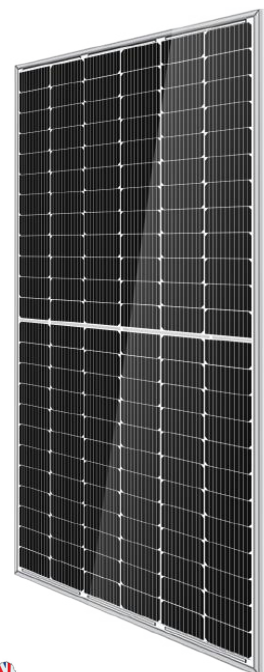
Microcrack resistant double glass structure enhances reliability, triple EL tested for high quality control

All the modules are sorted and packaged by amperage, reducing mismatch losses and maximising system output

Advanced surface treatment, lower surface reflection and multi-BB cell design can reduce the series resistance

Positive tolerance 0/+5w guaranteed

- Max Module Efficiency: 21.3%
- No. of Cells: 144 (2 x 72), 182mm
- Weight: 28.6 kg
- Dimensions: 2279mm x 1134mm x 35mm
- Monocrystalline 182x182mm



30 year British warranty



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



12 YEAR
PRODUCT
WARRANTY

* Specifications are subject to change without further notification

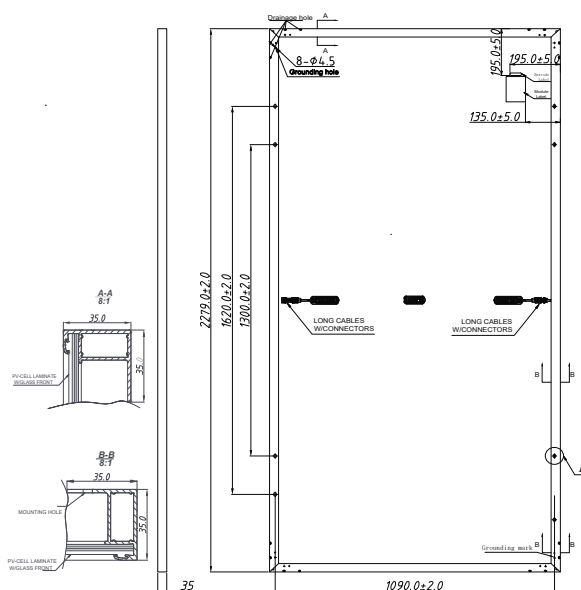
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Tier One Factory Produced

Model: AS-S144-M10H

530W-550W

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS

Module	AS-S144/M10H				
Maximum Power at STC (Pmax)	530W	535W	540W	545W	550W
Open-Circuit Voltage (Voc)	49.30V	49.45V	49.60V	49.75V	49.80V
Short-Circuit Current (Isc)	13.72A	13.79A	13.86A	13.93A	13.99A
Optimum Operating Voltage (Vmp)	41.31V	41.47V	41.64V	41.80V	41.6V
Optimum Operating Current (Imp)	12.83A	12.90A	12.97A	13.04A	13.23A
Module Efficiency	20.5%	20.7%	20.9%	21.1%	21.3%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500Vdc (IEC / UL)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

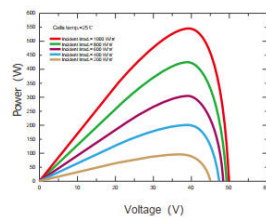
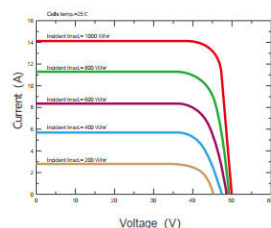
*STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NOCT

Module	AS-S144/M10H				
Maximum Power	401W	405W	408W	412W	416W
Open Circuit Voltage (Voc)	46.18V	46.31V	46.43V	46.55V	46.68V
Short Circuit Current (Isc)	11.01A	11.05A	11.09A	11.13A	11.17A
Maximum Power Voltage (Vmp)	38.57V	38.78V	38.99V	39.20V	39.43V
Maximum Circuit Current (Imp)	10.39A	10.43A	10.47A	10.51A	10.55A
NOCT	42°C ± 2°C				

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

I - V CURVES



MECHANICAL CHARACTERISTICS

Solar Cells	Mono crystalline 182mm
No. of Cells	144 (2x72)
Dimensions	2279mm x 1134mm x 35mm
Weight	28.6kg
Front Glass	AR coated 3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4.0mm ² 50cm(-) length can be customized
Connectors	MC4 Compatible
Packaging Configuration	31pcs / box, 936pcs / 40'HQ Container

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	γ (Pm)	-0.36%/K
Temperature Coefficient of Voc	β (Voc)	-0.304%/K
Temperature Coefficient of Isc	α (Isc)	0.050%/K