



Inspiring green-energy since 2003



MÓDULOS FV AE HALF CELL GRANDES MONOCRISTALINOS

AE HM6L-72 Series 525W-550W

144 CÉLULAS	LIVRES DE MICROFISSURAS	RESISTENTE A PID	RESISTENTE A CORROSÃO DE SAL	RESISTENTE A AREIA	$\frac{NH_3}{S}$ RESISTENTE AO AMONÍACO	ALTAMENTE ESTÁVEL E ROBUSTO
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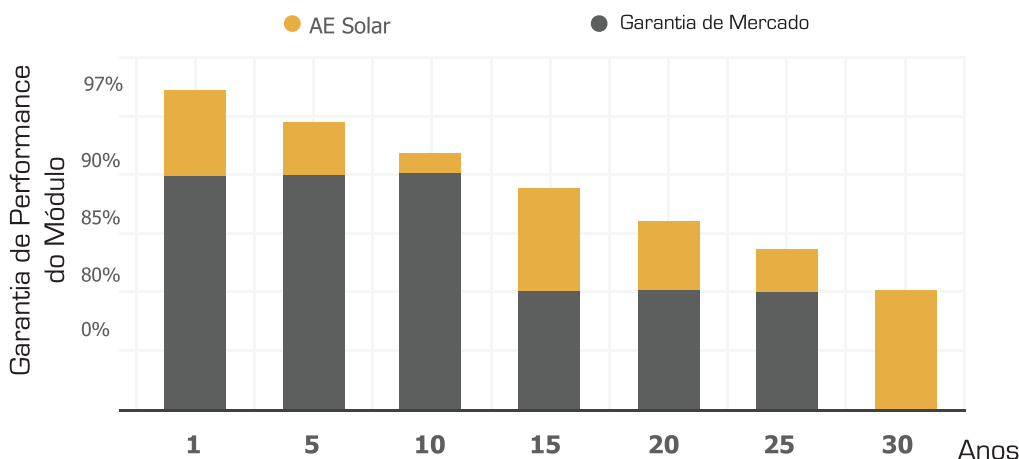
✓ QUALIDADE ALEMÃ
Os módulos fotovoltaicos da AE Solar, são produzidos com materiais de alta qualidade, em linhas de produção robóticas automatizadas, com tecnologia e normas Alemãs.

+ CLASSIFICAÇÃO POSITIVA
Maior produção devido à classificação positiva de, 0 a +5Wp, garantindo alta eficiência do sistema e estabilidade de rendimento.

🕒 PERFORMANCE GARANTIDA
A AE Solar oferece uma alta segurança no investimento, fornecendo garantia de desempenho linear de 30 anos e 12 anos de garantia do produto.

📄 CERTIFICADOS
Em conformidade com as normas internacionais, os módulos FV da AE Solar, são testados e certificados sob condições extremas de stress, podendo suportar variações ambientais rigorosas.

NOSSA GARANTIA DE PERFORMANCE



Qualidade Alemã Garantida

DADOS TÉCNICOS

AE HM6L-72 Series 525W-550W

ESPECIFICAÇÕES

AE525HM6L-72 AE530HM6L-72 AE535HM6L-72 AE540HM6L-72 AE545HM6L-72 AE550HM6L-72

Potência Max. Nominal	P _{max} (Wp)	525	530	535	540	545	550
Tensão Máxima	V _{mp} (V)	41.47	41.70	41.93	42.16	42.57	42.98
Corrente Máxima	I _{mp} (A)	12.66	12.71	12.76	12.81	12.86	12.92
Tensão de Circuito Aberto	V _{oc} (V)	49.50	49.65	49.78	49.90	50.01	51.44
Corrente de Curto-Circuito	I _{sc} (A)	13.42	13.47	13.52	13.57	13.62	13.67
Eficiência do Módulo	(%)	20.3	20.5	20.7	20.9	21.1	21.3
Temperatura de Operação	(°C)	-40 to +85					
Tensão Max. CC do Sistema	V (IEC)	1500					
Classificação Máx. de Fusíveis em Série (A)		25					
Tolerância de Potência	(%)	0/+4.99					
Coefficiente de Temperatura de P _{max}	(%/°C)	-0.350					
Coefficiente de Temperatura de V _{oc}	(%/°C)	-0.275					
Coefficiente de Temperatura de I _{sc}	(%/°C)	0.045					
Temp. Nominal de Op. das células (NOCT)	(°C)	45±2					

Os dados elétricos aplicam-se às condições de teste padrão (STC): Irradiância de 1000W/m² com espectro AM 1,5 e uma temperatura de célula de 25°C

CARACTERÍSTICAS DO MATERIAL

Tipo de Célula	Monocristalina 182 X 91 mm
N. de células	144
Dimensões	2279 x 1134 x 35mm
Peso	27KG
Caixa de Junção	IP 68 rated
Cabo de Saída	1 x 4.0mm ² , 350 mm
Tipo de Conector	MC 4 / MC 4 compatível
Resistência a granizo	Max. Ø 25 mm, at 23 m/s
Carga de Vento	2400 Pa / 244 kg/m ²
Carga Mecânica	5400 Pa / 550 kg/m ²

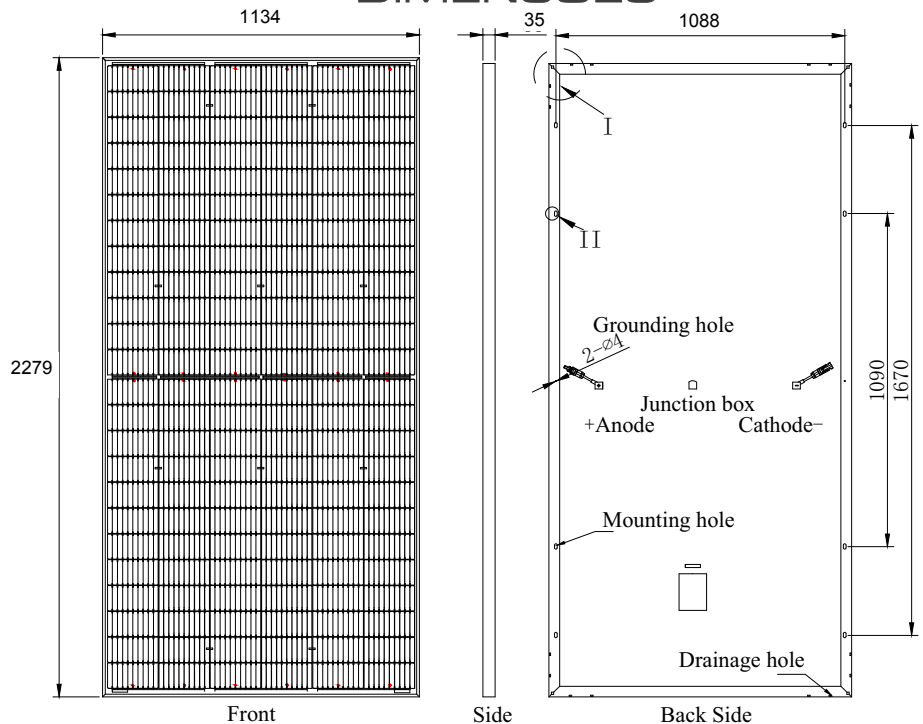
INFORMAÇÕES DA EMBALAGEM

Configuração da embalagem	62 pcs / palete dupla
Capacidade de Carga	620 pcs / 40HQ
Tamanho l paleta (mm)	2310x1135x2490
Peso	1750kg / paleta dupla

CERTIFICADOS



DIMENSÕES



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SUNNY TRIPOWER CORE2

STP 110-60



STP 110-60



SMA ShadeFix
STRING LEVEL OPTIMIZATION

Premium monitoring service **SMA**
SMART CONNECTED



More flexibility

- For large rooftop and ground-mounted systems up to the MW range
- 12 MPP trackers
- 24 strings with 1100 V_{DC} Sunclix connector

More power

- 110 kW for standard 400 V_{AC}
- Fast commissioning without additional DC combiners
- Peak efficiency of 98.6%

More yield

- Premium monitoring service for reliable system performance
- Maximum yields thanks to the integrated software solution SMA ShadeFix

More system integration

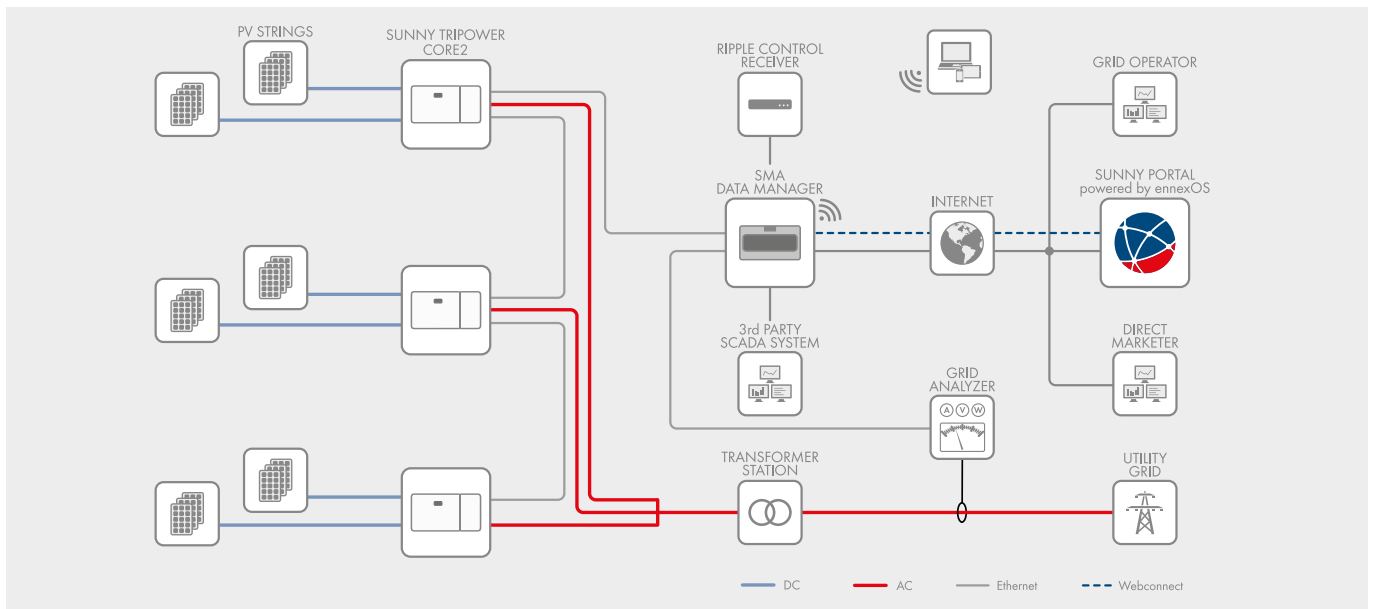
- Flexible and future-proof expansion in the SMA Energy System Business
- Holistic energy management with ennexOS
- High IT security

SUNNY TRIPOWER CORE2

Flexible system design and highest yields thanks to integrated features

Flexible system design for larger commercial PV systems: The Sunny Tripower CORE2 is the ideal inverter for decentralized system structures up to the megawatt range. With 110 kilowatts, 24 strings and 12 MPP trackers, the Sunny Tripower CORE2 allows for a particularly high solar coverage in ground-mounted PV systems as well as at different roof pitches during the day. The integrated SMA ShadeFix software solution automatically optimizes system performance anytime, even with partially shaded modules. The automatic monitoring service SMA Smart Connected also ensures maximum PV system yields by detecting failures as fast as possible.

With the Sunny Tripower CORE2 as a central component of the SMA Energy System Business, installers and PV system operators will benefit from the high-quality components from a single source and future-proof options to expand their systems by SMA storage solutions.



Technical data	Sunny Tripower CORE2
Input (DC)	
Max. PV array power	165000 Wp STC
Max. input voltage	1100 V
MPP voltage range	500 V to 800 V
Rated input voltage	585 V
Min. input voltage / Start input voltage	200 V / 250 V
Max. input current per MPP tracker / Max. short-circuit current per MPP tracker	26 A / 40 A
Number of independent MPP trackers / Strings per MPP tracker	12 / 2
Output (AC)	
Rated power at nominal voltage	110000 W
Max. apparent AC power	110000 VA
Nominal AC voltage	400 V
AC voltage range	320 V to 460 V
AC grid frequency / range	50 Hz / 45 Hz to 55 Hz 60 Hz / 55 Hz to 65 Hz
Rated grid frequency	50 Hz
Max. output current	159 A
Power factor at rated power / displacement power factor adjustable	1 / 0.8 overexcited to 0.8 underexcited
Harmonic (THD)	< 3%
Feed-in phases / AC connection	3 / 3-PE
Efficiency	
Max. efficiency / European efficiency	98.6% / 98.4%
Protective devices	
Input-side disconnection device	●
Ground fault monitoring / grid monitoring / DC reverse polarity protection	● / ● / ●
AC short-circuit current capability / galvanically isolated	● / -
All-pole sensitive residual-current monitoring unit	●
Monitored surge arrester (type II) AC / DC	● / ●
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)	I / AC: III; DC: II
General data	
Dimensions (W / H / D)	1117 mm / 682 mm / 363 mm (44.0 in / 26.9 in / 14.3 in)
Weight	93.5 kg (206.1 lbs)
Operating temperature range	-30 °C to +60 °C (-22 °F to +140 °F)
Noise emission, typical	< 65 db(A)
Self-consumption (at night)	< 5 W
Topology / cooling concept	Transformerless / active cooling
Degree of protection (according to IEC 60529)	IP66
Max. permissible value for relative humidity (non-condensing)	100%
Features / functions / accessories	
DC connection / AC connection	Sunclix / terminal lug (up to 240 mm ²)
LED display (Status / Fault / Communication)	●
Ethernet interface	● (2 ports)
Data interface	Web Interface / Modbus SunSpec
Mounting type	Wall mounting / rack mounting
Warranty: 5 / 10 / 15 / 20 years	● / ○ / ○ / ○
Certificates and approvals (selection)	IEC 62109-1/-2, EN50549-1/-2:2018, VDE-AR-N 4105/4110/4120:2018, IEC 62116, IEC 61727, C10/C11 LV2/MV1:2018, CEI 0-16:2019, AS/NZS 4777.2, SI 4777, TOR Generator Typ A/B
● Standard features ○ Optional features - not available Data at nominal conditions Status 08/2020	
Type designation	STP 110-60