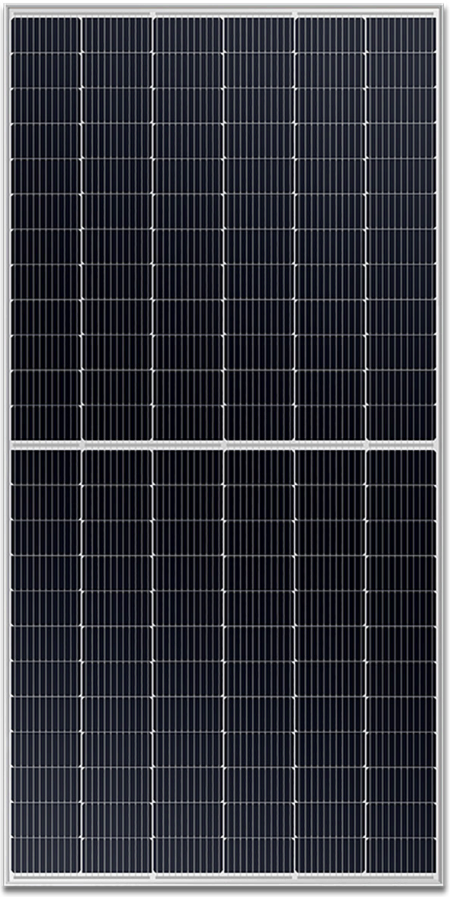
EX530-550M(B)-144(HC) 9BB(182)

Exiom Solution diseña, fabrica y distribuye la más alta calidad en Energía Solar.
La alta eficiencia de nuestras células solares nos permite producir diferentes tipos de paneles para a su vez dar la mayor eficiencia posible a sus instalaciones.

Exiom Solution designs, manufactures and delivers high-performance solar electric technology worldwide.
Our high-efficiency solar cell let us manufacture the different kinds of panels to get the most efficient in your installations.



1 TIER Bloomberg NEW ENERGY FINANCE

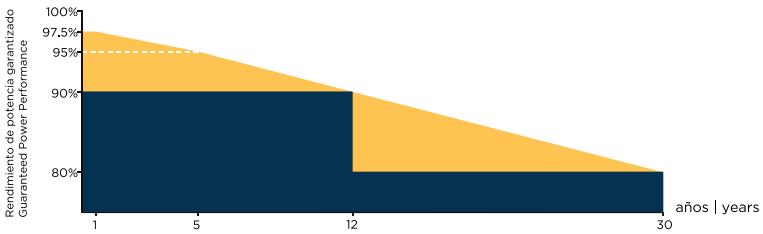
DATOS MECÁNICOS MECHANICAL SPECIFICATIONS

Dimensiones | Dimensions: 2279*1134mm	Max. Voltaje | Max. system Voltage (V): 1000/1500
Peso | Weight: 27.4 kg	No máximo. de series | Max. Series Fuse Rating (A): 25
Cable: 4 mm2	Carga mecánica | Mechanical load: 2400 / 5400Pa
Celdas | Cells : 182*91 Mono 44(6*24)	Hot Spot Rate: 100% Free
No de diodos | No of diodes: 3	Temp. funcionamiento | Operating temperature: -40~+85
Caja de conexiones | Junction box: IP68	

GARANTÍA DE RENDIMIENTO LINEAL LINEAR PERFORMANCE WARRANTY

Garantía de rendimiento lineal
Lineal performance waranty

Garantía de rendimiento estandar
Standard performance warranty



CERTIFIED IEC 61730 Ed.1
CERTIFIED IEC 61215 Ed.2
Anti-PID
System voltage durability
PPP 56042
MCS
CE
INMETRO

Especificaciones sujetas a cambios técnicos y pruebas.
Exiom Solution se reserva el derecho de la correcta interpretación final.
Specifications subject to technical changes and tests. Exiom Solution reserves the right of final interpretation.

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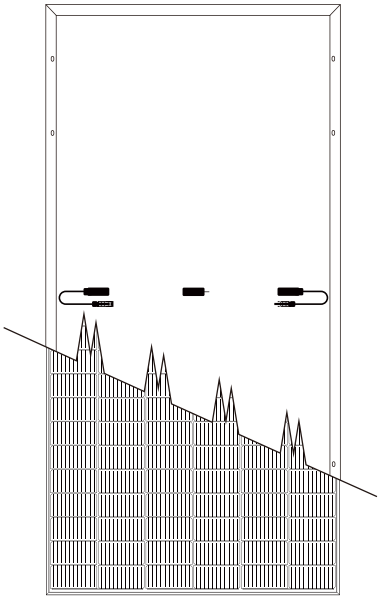
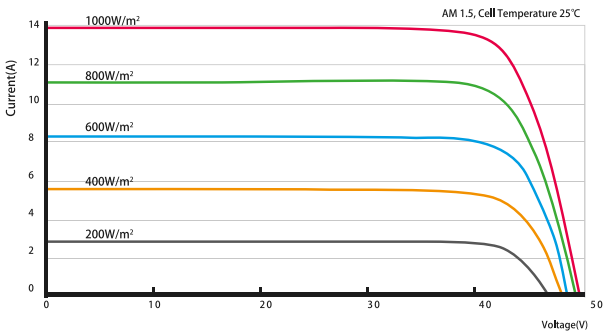


TIPO TYPE	EX530MB-144	EX535MB-144	EX540MB-144	EX545MB-144	EX550MB-144
STC 1000 W/M2. Module Temperature 25ºC A.M.1,5					
Potencia de salida | Power output	530	535	540	545	550
Max. potencia tolerada | Max. power tolerance (%)			(0-+5)		
Eficiencia módulo | Module efficiency (%)	20.5	20.7	20.9	21.1	21.3
Voltage | Máximo voltage, VMP (V)	41.03	41.28	41.54	41.76	41.95
Intensidad máxima actual | Current, IMP (A)	12.92	12.97	13.00	13.06	13.12
Voltaje circ. abierto | Voltage open circuit, VOC (V)	48.83	49.12	49.43	49.70	49.97
Intensidad de cortocircuito | Short circuit current, ISC (A)	13.74	13.79	13.83	13.88	13.93
NOCT 800W/M2 Environment. Temperature 20ºC A.M. 1,5					
Potencia de salida | Power output	400.3	404.0	407.8	411.6	415.4
Voltage | Máximo voltage, VMP (V)	38.72	38.94	39.21	39.39	39.57
Intensidad máxima actual | Current, IMP (A)	10.34	10.38	10.40	10.45	10.50
Voltaje circ. abierto | Voltage open circuit, VOC (V)	46.10	46.37	46.67	46.92	47.17
Intensidad de cortocircuito | Short circuit current, ISC (A)	11.06	11.10	11.13	11.18	11.22
COEFICIENTES DE TEMPERATURA TEMPERATURE COEFFICIENTS					
Coeficiente de temp. | Temp. Coefficient (PMAX)			-0.35%/ºC		
Coeficiente de temp. | Temp. Coefficient (ISC)			0.04%/ºC		
Coeficiente de temp. | Temp. Coefficient (VOC)			-0.29%/ºC		
NOCT			43±2ºC		

I-V CURVAS CURVES

Temperatura celdas \| *Cells temperature:* 25ºC. Current-Voltage & power Voltage Curve (550)



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SUN2000-50KTL-M3

Smart PV Controller

Higher Yields

Up to 30% More Energy
with Optimizer

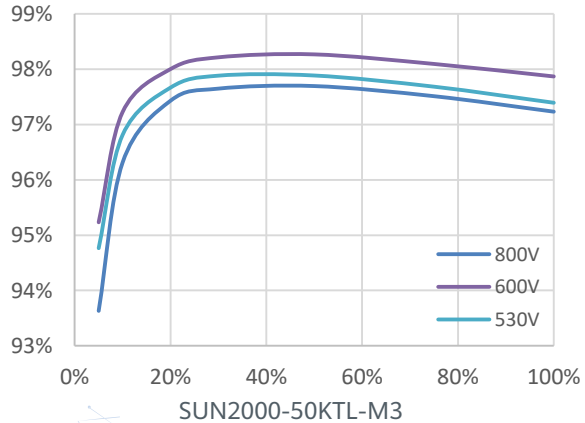
Active Safety

AI Powered
Active Arcing Protection

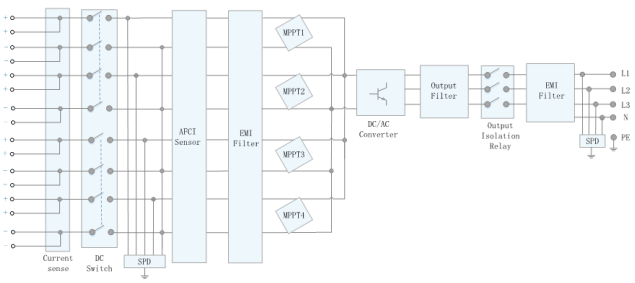
Flexible Communication

WLAN, Fast Ethernet, 4G
Communication Supported

Efficiency Curve



Circuit Diagram



Technical Specification

Technical Specification	SUN2000-50KTL-M3
Efficiency	
Max. Efficiency	98.5%
European Efficiency	98.0%
Input	
Max. Input Voltage [1]	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input	20 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range [2]	200 V ~ 1,000 V
Rated Input Voltage	600 V
Number of Inputs	8
Number of MPP Trackers	4
Output	
Rated AC Active Power	50,000 W
Max. AC Apparent Power	55,000 VA
Max. AC Active Power (cosφ=1)	55,000 W
Rated Output Voltage	400 Vac / 480 Vac, 3W+(N) + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	72.2 A @ 400Vac, 60.1 A @ 480Vac
Max. Output Current	79.8 A @ 400Vac, 66.5 A @ 480Vac
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	<3%
Protection	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Arc Fault Protection	Yes
Ripple Receiver Control	Yes
Integrated PID Recovery [3]	Yes
Communication	
Display	LED Indicators, Bluetooth + APP
RS485	Yes
Smart Dongle	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)
Monitoring BUS (MBUS)	Yes (Isolation Transformer required)
General Data	
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Weight (with mounting plate)	49 kg (108.1 lb)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0% RH ~ 100% RH
DC Connector	Amphenol HH4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Topology	Transformerless
Nighttime Power Consumption	≤ 5.5W
Standard Compliance (more available upon request)	
Safety	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
Grid Connection Standards	IEC 61727, VDE-AR-N4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3,RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, AS/NZS 4777.2, DEWA

1. The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.
2. Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
3. SUN2000-30~50KTL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)


2,60 m
2,45 m
0,90 m
0,20 m
0,40 m
2,06 m
2,58 m
2,50 m
MUNASA
2,34 m
2,50 m
2,20
2,35 m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