



Kit Avanzado 10.000W Alta Eficiencia MPPT

DESCRIPCION:

- ✓ 1 Inversor MPPT 10.000W / 48v MPPT Alta Eficiencia.
- ✓ 16 Paneles Fotovoltaico 270w / 24 / 60 Celdas
- ✓ 8 Baterías 200 ah
- ✓ 1 Disyuntor DC 1x63A
- ✓ 1 Disyuntor DC 1X100A
- ✓ 1 Tablero Sobrepuesto Plástico 8 Posiciones
- ✓ Estructura Metálica de Riel con Soporte de Aluminio por 36 Metros Lineales
- ✓ 30 Conectores Unión-Placa "T" 35MM
- ✓ 8 Conectores terminal "Z" 35MM
- ✓ 32 Conectores de Soporte "L" Aluminio
- ✓ 6 Conectores Unión Riel
- ✓ 20Mts de Cable Solar 6MM Negro
- ✓ 20Mts Cable Solar 6MM Rojo
- ✓ Cables para Batería 4,2Mts x 25MM
- ✓ 18 Terminales de Batería M12 25MM Espiga larga
- ✓ 4 Conectores MC4 Simple

Detalles Técnicos:

✓ Inversor MPPT 10.000:

- Model (Voltronic Axpert Max II-10000).
- Potencia continua 10000VA / 10000W.
- Funcionamiento en paralelo hasta 6 unidades.
- Entrada voltaje nominal 230VCA
- Rango de voltaje aceptable 170~280VCA
- Salida regulación de voltaje (modo inversor) 230VCA $\pm$ 5%.
- Potencia de pico 20000VA
- Tiempo de transferencia 15ms ~ 20ms
- Forma de onda Senoidal pura
- Batería Voltaje de batería 48VDC
- Voltaje flote 54VDC
- Protección de sobrecarga 66VDC
- Cargador y regulador solar Tipo MPPT,
- Potencia máxima de panel 10000W
- Voltaje de entrada MPPT, 90VCC~450VCC
- Voltaje de entrada máximo (VCC) 500VCC
- Corriente máxima - regulador solar 150^a
- Corriente máxima - cargador (CA) 150^a Corriente máxima total 150^a,
- Eficiencia 93%

Kit Solares SPA Rut: 77.118.748-k – www.kitsolares.cl

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- Dimensiones (mm) 158.4 x 503.6x 530.8 mm, Peso neto (kg) 20

✓ **Panel Fotovoltaico 270W:**

Potencia de salida:	255 - 270W
Voltaje Máximo (Vm):	20.0 %
Corriente Máxima (Im):	8.52
Voltaje Circuito Abierto (Voc):	31.7
Corriente Corto Circuito (Isc):	9.09
Peso:	19kg
Medida:	1650 x 992 x 40 mm

✓ **Batería 200ah:** Batería 200Ah ciclo profundo, GEL, sellada, libre de mantención, Ideal para respaldo de energía, sistemas solares y eólicos, Peso sin caja: 58.5 kilos, Medidas: 54.7 x 26 x 25 cms.

✓ **Estructura metálica:** Estructura soporte montaje 16 paneles coplanar para instalación paralelo al techo (Techo liso). Incluye sujeciones para paneles de 35mm.

✓ **Conector Unión-Placa "T" 35MM:** Diseñada para lograr la fijación de las placas solares en los rieles de aluminio, en específico las uniones entre las placas de 35mm.

✓ **Conector terminal "Z":** Diseñada para lograr la fijación de las placas solares en los rieles de aluminio, en específico las fijaciones de las placas de 35mm que quedan a los extremos de la instalación.

✓ **Conector Soporte "L":** Soporte tipo L de aluminio, para fijar el riel de aluminio al techo.

✓ **Tablero Sobrepuesto:** Tablero Sobrepuesto DIN plástico 8 posiciones.

Tablero Plástico de Policarbonato
Riel Din
Protección: IP44
Dimensiones: 184 x 210 x 100 (mm).

✓ **Disyuntor DC 1X100A:** Interruptor automático 1P AC 100A utilizado para proteger y cortar corriente alterna en el tablero FV de sistemas solares.

✓ **Cable Batería 25mm:** Cable Batería de 25mm utilizado para conexión de banco de baterías, como también de banco de batería a inversores.

✓ **Terminal Batería:** Terminal Compresión Cobre Estañado 25mm² - 6mm.

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✓**Conector MC4 Simple:** El conector solar MC4 está especializado en sistemas solares fotovoltaicos entre el panel solar y el inversor o la caja del controlador. Son resistentes a los rayos UV y pueden funcionar al aire libre durante 25 años.

✓**Cable Solar 6MM Negro:** Este cable resulta especialmente útil para la conexión de paneles fotovoltaicos al controlador de carga y del controlador a baterías. También se puede usar en sistemas fotovoltaicos con conexión a la red para el tramo de unión entre los paneles solares y el inversor.

✓**Cable Solar 6MM Rojo:** Cable Solar Fotovoltaico 6mm Rojo cuenta con certificados TÜV, EN, CE y RoHS. Este cable para panel solar es ideal para la distribución de energía en sistemas solares fotovoltaicos, especialmente para la conexión de paneles solares hacia el regulador MPPT o inversor solar.

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Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	200Ah@10hr-rate (20.0A to 1.80V/cell @25°C)
Weight	Approx.57.50Kg
Terminal	M8,Φ=16&18
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	205.0Ah 20hr-rate (10.25A to 1.80V/cell @25°C) 200.0Ah 10hr-rate (20.0A to 1.80V/cell @25°C) 167.0Ah 5hr-rate (33.4A to 1.75V/cell @25°C) 122.0Ah 1hr-rate (122A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.2.6mΩ(Fully charged)
Operating Temp. Range	Discharge: -40 °C~60 °C Charge : -20°C~50°C Storage : -40°C~60°C
Cycle Use	Charging Current: ≤40.0A Voltage:14.2V ~14.4V Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit Voltage:13.6V ~13.8V Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)

Introduction

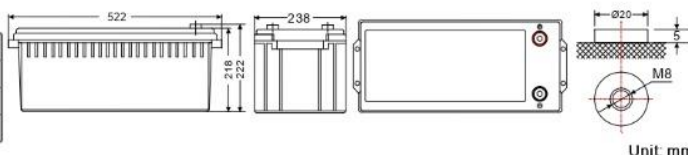
The NIMAC GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 30% compared with other normal AGM batteries.

Applications

- ♦ Auto control system & ATM machine
- ♦ Electronic apparatus and equipment
- ♦ Emergency light & Emergency backup power supply & Alarm/Security system
- ♦ Power generation system (solar and wind power system, etc.)
- ♦ Communication power & DC power
- ♦ Electric Power System (EPS)
- ♦ Uninterruptable Power System (UPS)
- ♦

Dimensions

Length	522±1mm (20.47 inches)
Width	238±1mm (9.45 inches)
Height	218±1mm (8.62 inches)
Total Height	222±1mm (8.82 inches)



Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	662.3	474.6	345.3	216.8	122.5	69.95	49.20	40.72	34.29	24.34	20.96	11.09
1.65V/cell	644.6	451.6	338.2	213.2	122	69.42	49.01	40.53	34.09	24.14	20.76	10.88
1.70V/cell	607.4	435.6	332.9	211.3	120.8	68.89	48.63	40.34	33.88	23.95	20.56	10.68
1.75V/cell	545.4	402	317	206	119.7	68.37	48.44	39.96	33.48	23.75	20.36	10.48
1.80V/cell	492.3	366.6	292.2	197	116.9	67.14	47.12	39.02	32.88	23.35	20.16	10.28
1.85V/cell	428.5	327.6	262.1	184.5	111	64.16	45.05	37.13	31.46	22.36	19.55	9.67

Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	6308	4613	3396	2446	1401	804.6	567.7	470.5	396.9	282.5	235.7	124.5
1.65V/cell	6179	4406	3326	2416	1394	801.5	566.6	469.4	394.5	281.3	233.3	123.3
1.70V/cell	5833	4259	3280	2387	1384	794.1	563.2	467.1	393.3	278.9	232.1	122.1
1.75V/cell	5252	3935	3128	2333	1371	786.8	559.8	463.7	389.7	276.5	229.7	120.9
1.80V/cell	4725	3573	2874	2227	1337	775.2	546.3	451.3	383.6	270.6	227.2	119.7
1.85V/cell	4078	3173	2566	2087	1267	739.4	519.1	429.8	364.3	261.1	220.0	114.8

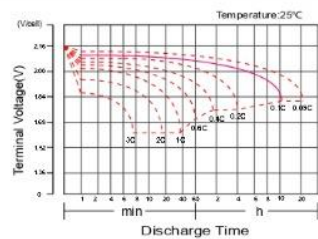


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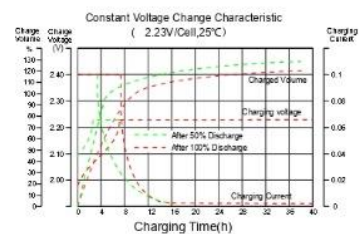
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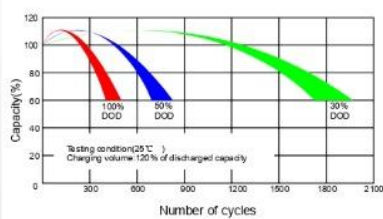
Discharge Characteristics Curve



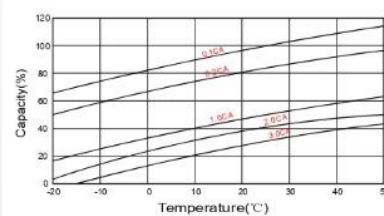
Charging Characteristics Curve



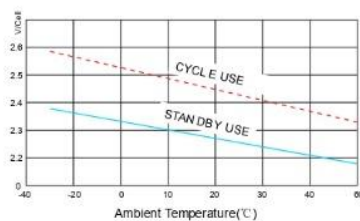
Cycle life in relation to depth of Discharge



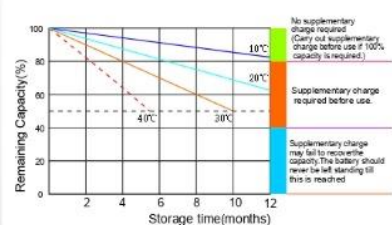
Temperature effects on Capacity



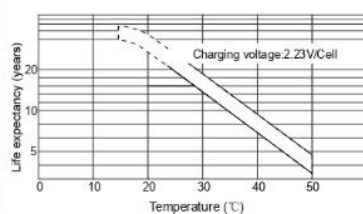
Relationship between charging voltage and temperature



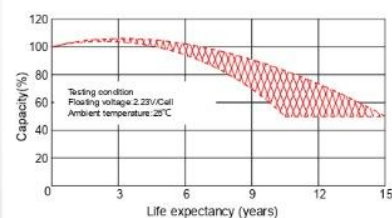
Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use



JKM270PP-60 255-270 Watt POLY CRYSTALLINE MODULE

Positive power tolerance of 0/+3%

ISO9001:2008 · ISO14001:2004 · OHSAS18001
certified factory.
UL1703 certified products.
(North America Market Use Only)



KEY FEATURES



Innovative Solar Cells

Four bus-bar cell technology provides a more robust and powerful module ideal for rooftop applications



More Power

Polycrystalline 60-cell module with power output available to 270W



PID-FREE Guarantee

Power degradation caused by PID is guaranteed*



Low-Light Performance

Improved low light performance through advancements in glass technology and surface texturing



Strong and Durable

Tested and tried to endure up to 5400Pa positive and 2400Pa negative loads



Weather Resistance

Certified by TUV for high salt mist and ammonia resistance



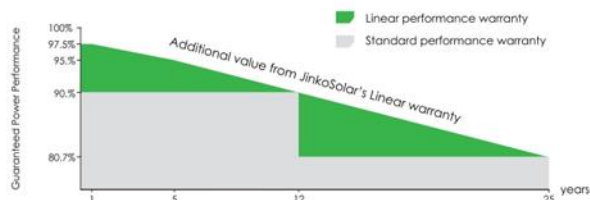
Better Performance in Hot Climates

Improved temperature coefficients mitigates power loss in hotter climate installations

* Limited power degradation caused by the PID effect is guaranteed under 60°C/85% RH condition for mass production Eagle modules

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

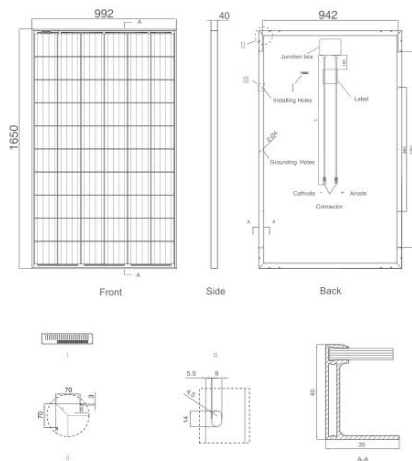


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Engineering Drawings

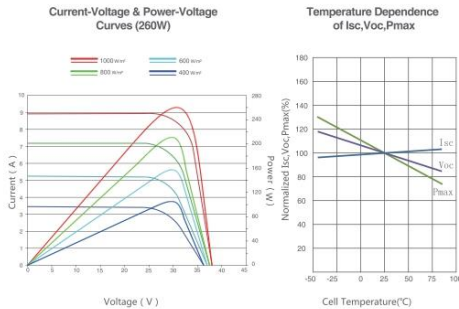


Packaging Configuration

(Two boxes=One pallet)

25pcs/ box, 50pcs/pallet, 700 pcs/40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Poly-crystalline 156×156mm (6 inch)
No. of cells	60 (6×10)
Dimensions	1650×992×40mm (65.00×39.05×1.57 inch)
Weight	19.0 kg (41.9 lbs)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy (Silver/Black)
Junction Box	IP67 Rated
Output Cables	12 AWG, Length:900mm
Fire Type	Type 1

SPECIFICATIONS

Module Type	JKM255PP		JKM260PP		JKM265PP		JKM270PP	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	255Wp	190Wp	260Wp	194Wp	265Wp	198Wp	270Wp	202Wp
Maximum Power Voltage (Vmp)	30.8V	28.1V	31.1V	28.3V	31.4V	28.7V	31.7V	29.0V
Maximum Power Current (Imp)	8.28A	6.75A	8.37A	6.84A	8.44A	6.91A	8.52A	6.97A
Open-circuit Voltage (Voc)	38.0V	35.0V	38.1V	35.1V	38.6V	35.3V	38.8V	35.6V
Short-circuit Current (Isc)	8.92A	7.22A	8.98A	7.26A	9.03A	7.31A	9.09A	7.35A
Module Efficiency STC (%)	15.58%		15.89%		16.19%		16.50%	
Operating Temperature(°C)	-40°C ~+85°C							
Maximum system voltage	1000VDC (UL)							
Maximum series fuse rating	15A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.40%/°C							
Temperature coefficients of Voc	-0.30%/°C							
Temperature coefficients of Isc	0.06%/°C							
Nominal operating cell temperature (NOCT)	45±2°C							

STC:  Irradiance 1000W/m²  Cell Temperature 25°C  AM=1.5

NOCT:  Irradiance 800W/m²  Ambient Temperature 20°C  AM=1.5  Wind Speed 1m/s

* Power measurement tolerance: ± 3%

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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 US-MKT-270PP_v1.0_rev2015

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•Status indication with RGB lights

- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Supports USB On-the-Go function
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Replaceable fan design for ease of maintenance
- Battery independent design
- Configurable AC/PV output usage timer and prioritization
- Selectable high power charging current
- Selectable input voltage range for home appliances and personal computers
- Compatible to Utility Mains or generator input
- Built-in anti-dust kit
- Built-in DC output for DC fan, LED bulb, router and so on.
- Parallel operation with 6 units
- Dual outputs selected as either programmable output or generator input


Axpert MAX II Specification

MODEL	Axpert MAX II 10000
Rated Inverter Power	10000VA/10000W
PARALLEL CAPABILITY	YES, 6 units
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Computers) 90-280 VAC (For Home Appliances)
Frequency Range	
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%
Surge Power	20000VA
Efficiency (Peak)	93%
Transfer Time	15 ms (For Personal Computers), 20 ms (For Home Appliances)
Waveform	Pure Sine Wave
No Load Power Consumption	<70W
DC Voltage	12 VDC $\pm$ 5%, 100W
Dual Outputs	Yes
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Solar Charger type	
Maximum PV Array Power	10000W (5000W x 2)
MPPT Range @ Operating Voltage	90 ~ 450 VDC
Maximum PV Array Open Circuit Voltage	500 VDC
Maximum Solar Charge Current	150A
Maximum AC Charge Current	150A
Maximum Charge Current	150A
PHYSICAL	
Dimension, D X W X H (mm)	158.4 x 503.6 x 530.8
Net Weight (kgs)	20
Communication Interface	USB/RS232/RS485/Wifi/Dry-contact
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C
STANDARD	
Compliance Safety	CE

* Product specifications are subject to change without further notice


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Advancing Power

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