

MOTOMA®

Power into the Future

INVERTER CATALOGUE

Quality Creates Brand, Service Enhances Value



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- Economical solar inverter with affordable price
- Easy install, one battery 12vdc
- Wide PV input voltage range starts from 30VDC
- Battery independent design
- Built-in 80A MPPT solar charger
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit



Axpert VM II Off-Grid Inverter Specification

| MODEL | Axpert VM II 1.5K |
|---------------------------------------|--|
| Rated Power | 1500VA/1500W |
| INPUT | |
| Voltage | 230 VAC |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances) |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| OUTPUT | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% |
| Output Power | 1500W with PV & battery; 1200W with battery only |
| Surge Power | 2400VA |
| Efficiency (Peak) | 93% |
| Transfer Time | 10 ms (For Personal Computers) ; 20 ms (For Home Appliances) |
| Waveform | Pure sine wave |
| BATTERY | |
| Battery Voltage | 12 VDC |
| Floating Charge Voltage | 13.5 VDC |
| Overcharge Protection | 16 VDC |
| SOLAR CHARGER & AC CHARGER | |
| Solar Charger Type | MPPT |
| Maximum PV Array Open Circuit Voltage | 350 VDC |
| Maximum PV Array Power | 2000W |
| MPP Range @ Operating Voltage | 30-300 VDC(30V-60V with battery) |
| Maximum Solar Charge Current | 80 A |
| Maximum AC Charge Current | 80 A |
| Maximum Charge Current | 80 A |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 90 x 288 x 357 |
| Net Weight (kgs) | 6.5 |
| Communication Interface | RS232 |
| ENVIRONMENT | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) |
| Operating Temperature | -10°C to 50°C |
| Storage Temperature | -15°C to 60°C |

Product specifications are subject to change without further notice.



- Pure sine wave solar inverter
- Reserved communication port for BMS
- Wide PV input range
- Battery independent design
- Maximum charging current 100A
- Battery equalization function to optimize battery performance and extend lifecycle
- Built-in anti-dust kit

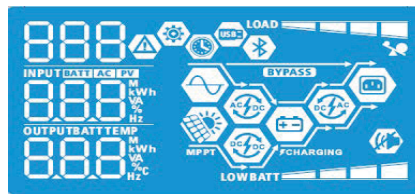
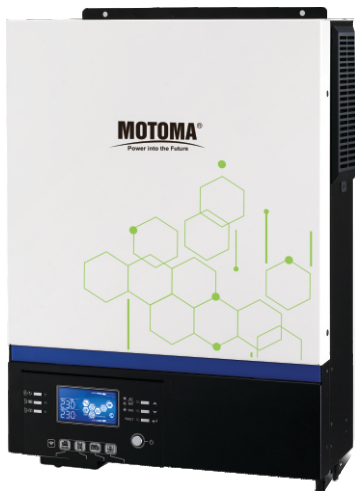


Axpert VM II Premium Off-Grid Inverter Selection Guide

| MODEL | Axpert VM II Premium 3K |
|---------------------------------------|--|
| Rated Power | 3000VA/3000W |
| INPUT | |
| Voltage | 230 VAC |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances) |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| OUTPUT | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% |
| Surge Power | 6000VA |
| Efficiency (Peak) | 93% |
| Transfer Time | 10 ms (For Personal Computers) ; 20 ms (For Home Appliances) |
| Waveform | Pure sine wave |
| BATTERY | |
| Battery Voltage | 24 VDC |
| Floating Charge Voltage | 27 VDC |
| Overcharge Protection | 32 VDC |
| SOLAR CHARGER & AC CHARGER | |
| Solar Charger Type | MPPT |
| Maximum PV Array Open Circuit Voltage | 450 VDC |
| Maximum PV Array Power | 3000W |
| MPP Range @ Operating Voltage | 30~400 VDC (30~60VDC with battery connected) 60 - 400 VDC |
| Maximum Solar Charge Current | 100 A |
| Maximum AC Charge Current | 80 A |
| Maximum Charge Current | 100 A |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 110 x 288 x 390 |
| Net Weight (kgs) | 7.2 |
| Communication Interface | RS232/RS485 For Lithium Battery BMS communication |
| ENVIRONMENT | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) |
| Operating Temperature | -10°C to 50°C |
| Storage Temperature | -15°C to 60°C |

Product specifications are subject to change without further notice.

OFF- GRID INVERTER Axpert VM III TWIN



LCD Display Panel



· **Dual outputs for smart load management**

There are two outputs available. The second output can be scheduled on/off, setting cut-off voltage or SOC and discharging time via LCD setting. It facilitates users smart load control.

· **Maximum PV input current 27A**

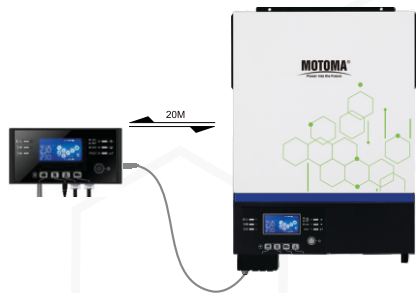
Designed with 27A PV input current, Axpert VM III TWIN is compatible to the market trend of increased Imp in solar panel.

· **Wide PV input voltage range 60VDC~450VDC**

Now, Axpert VM III TWIN allows wide PV input voltage range from 60VDC to 450VDC. This features allow less solar panel required in the system and save space.

· **Detachable LCD control module with various communications**

This detachable LCD control module can be turned to remote panel. Users can install the LCD panel in accessible area away from inverter up to 20 meters.



· **Built-in WiFi for mobile monitoring (App is available)**

VM III TWIN series is integrated Wifi interface ready for mobile monitoring. This technology allows wireless communication up to 6~7m in an open space. Now, WatchPower App is available in google store.



· **Supports USB On-the-Go function**

VM III TWIN series supports USB On-the-Go function to facilitate data upload/download.



· **Reserved communication port (RS-485, CAN-BUS or RS-232) for BMS**

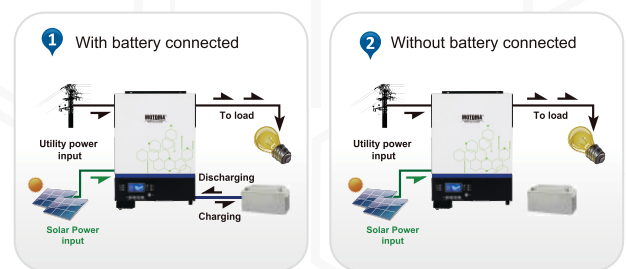
This third generation inverter is reserved communication port for BMS. For the detailed information, please contact sales directly.

· **Battery equalization extends lifecycle**

This inverter charger is built in battery equalization function. This function will help remove sulfation to optimize battery performance and even extend lifecycle.

· **Battery independency**

Inverter can keep supplying power to the loads from PV energy or the grid without battery connected.



· **User-friendly LCD operation**

Users can easily set up or change the charging current, output source and charger source prioritization through LCD control panel to optimize inverter performance.



· **Replaceable fan design**

VM III TWIN series is designed with replaceable fan. It will simplify the maintenance and reduce the maintenance cost.



Axpert VM III TWIN Off-Grid Inverter Selection Guide

| MODEL | Axpert VM III TWIN 4K | Axpert VM III TWIN 6K |
|---------------------------------------|--|-----------------------|
| Rated Power | 4000VA/4000W | 6000VA/6000W |
| INPUT | | |
| Voltage | 230 VAC | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | |
| OUTPUT | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 10% | |
| Surge Power | 8000VA | 12000VA |
| Efficiency (Peak) | 90% ~ 93% | |
| Transfer Time | 15 ms (For Personal Computers) 20 ms (For Home Appliances) | |
| Waveform | Pure sine wave | |
| BATTERY | | |
| Battery Voltage | 24 VDC | 48 VDC |
| Floating Charge Voltage | 27 VDC | 54 VDC |
| Overcharge Protection | 33 VDC | 63 VDC |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger type | MPPT | |
| Maximum PV Array Power | 5000W | 6000W |
| MPP Range @ Operating Voltage | 60 ~ 450 VDC | 60 ~ 450 VDC |
| Maximum PV Array Open Circuit Voltage | 500 VDC | 500 VDC |
| Maximum PV Input Current | 27A | |
| Maximum Solar Charge Current | 120A | 120A |
| Maximum AC Charge Current | 100A | 100A |
| Maximum Charge Current | 120A | 120A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 115 x 300 x 435 | |
| Net Weight (kgs) | 9 | 10 |
| 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 | |

Product specifications are subject to change without further notice.



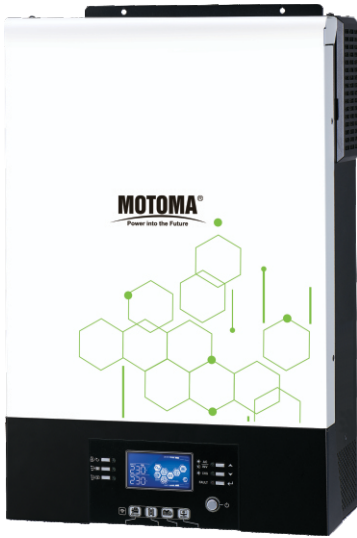
- Dual output for smart load management
- Wide PV input voltage range 60VDC~450VDC
- Customizable status LED ring with RGB lights
- Touchable button with large 4.3" colored LCD
- Reserved communication port (RS485, CAN-BUS or RS232) for BMS
- Built-in Wifi for mobile monitoring (Android/iOS App available)
- Supports USB On-the-Go function
- Data log event stored in the inverter
- Maximum PV input current 27A
- Battery independent design
- Battery equalization extends lifecycle
- Enhanced charging power
- Built-in anti-dust kit



Axpert VM IV TWIN Off-Grid Inverter Selection Guide

| MODEL | Axpert VM IV TWIN 4K | Axpert VM IV TWIN 6K |
|---------------------------------------|--|----------------------|
| Rated Power | 4000VA/4000W | 6000VA/6000W |
| INPUT | | |
| Voltage | 230 VAC | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | |
| OUTPUT | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 10% | |
| Surge Power | 8000VA | 12000VA |
| Efficiency (Peak) | 90% ~ 93% | |
| Transfer Time | 15 ms (For Personal Computers) 20 ms (For Home Appliances) | |
| Waveform | Pure sine wave | |
| BATTERY | | |
| Battery Voltage | 24 VDC | 48 VDC |
| Floating Charge Voltage | 27 VDC | 54 VDC |
| Overcharge Protection | 33 VDC | 63 VDC |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger type | MPPT | |
| Maximum PV Array Power | 5000W | 6000W |
| MPP Range @ Operating Voltage | 60 ~ 450 VDC | 60 ~ 450 VDC |
| Maximum PV Array Open Circuit Voltage | 500 VDC | 500 VDC |
| Maximum PV Input Current | 27A | |
| Maximum Solar Charge Current | 120A | 120A |
| Maximum AC Charge Current | 100A | 100A |
| Maximum Charge Current | 120A | 120A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 119 x 313.6 x 457.5 | |
| Net Weight (kgs) | 10 | 12 |
| 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 | |

Product specifications are subject to change without further notice.



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- Detachable LCD control module with multiple communications
- Built-in Wi-Fi for mobile monitoring (App is available)
- Configurable AC/Solar input priority via LCD setting
- Reserved communication port for BMS (RS485 or CAN-BUS)
- High PV input voltage range
- Selectable high power charging current
- USB On-the-Go function
- Parallel operation up to 9 units



Axpert King II TWIN Off-Grid Inverter Selection Guide

| MODEL | | Axpert King II TWIN 6K |
|---|----------|--|
| Rated Power | | 6000VA/6000W |
| Parallel Capability | | Up to 9 units |
| GRID INPUT | | |
| Voltage | | 230 VAC |
| Voltage Range | | 110-280 VAC |
| Frequency Range | | 50 Hz/60 Hz (Auto sensing) ± 4Hz |
| Power Factor | | ≧ 0.98 @ Nominal Voltage (100% Load) |
| THDi | | ≦ 10% |
| OUTPUT | | |
| AC Voltage Regulation (Line&Batt. Mode) | | 230VAC ± 5% |
| Frequency Range (Synchronized Range) | | 46~54 Hz or 56~64 Hz |
| Frequency Range (Batt. Mode) | | 50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz |
| Harmonic Distortion | | ≦ 3 % THD (Linear Load); ≦ 5 % THD (Non-linear Load) |
| Transfer Time | Transfer | 0 ms |
| | Time | 4 ms (Typical) |
| Waveform | | Pure sine wave |
| EFFICIENCY | | |
| Line Mode | | 94% |
| ECO Mode | | 98% |
| Battery Mode | | 92% |
| BATTERY | | |
| Battery Voltage | | 40~66 VDC |
| Floating Charge Voltage | | 54 VDC |
| Overcharge Protection | | 66 VDC |
| SOLAR INPUT | | |
| Solar Charger type | | MPPT |
| Maximum PV Array Power | | 6000 W |
| MPPT Range @ Operating Voltage | | 120 ~ 430 VDC |
| Maximum PV Array Open Circuit Voltage | | 500 VDC |
| Maximum Solar Charge Current | | 120A |
| Maximum AC Charge Current | | 120A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | | 140 x 295 x 468 |
| Net Weight (kgs) | | 12 |
| Communication Interface | | RS232, USB, Dry contact, WI-FI, RS485 |
| ENVIRONMENT | | |
| Humidity | | 5% to 95% Relative Humidity(Non-condensing) |
| Operating Temperature | | -10°C to 50°C |
| Storage Temperature | | -15°C to 60°C |

Product specifications are subject to change without further notice.

OFF- GRID INVERTER

Axpert MKS III TWIN



- Maximum PV input current 27A
- Dual outputs for smart load management
- Detachable LCD control module with multiple communications
- Wide DC input range
- Built-in Bluetooth for mobile monitoring (Android App is available)
- Smart battery charger design for optimized battery performance
- Reserved communication port for BMS (RS485)
- Supports USB On-the-Go function
- Battery independent function
- Parallel operation up to 9 units



Axpert MKS III TWIN Off-Grid Inverter Selection Guide

| MODEL | Axpert MKS III TWIN 6K |
|---------------------------------------|--|
| Rated Power | 6000VA/6000W |
| INPUT | |
| Voltage | 230 VAC |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| OUTPUT | |
| AC Voltage Regulation (Batt. Mode) | 230 VAC ± 5% |
| Overload Capacity | 5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load |
| Efficiency (Peak) | 93 % |
| Transfer Time | 10 ms (For Personal Computers) 20 ms (For Home Appliances) |
| Waveform | Pure sine wave |
| BATTERY | |
| Battery Voltage | 48 VDC |
| Floating Charge Voltage | 54 VDC |
| Overcharge Protection | 66 VDC |
| SOLAR CHARGER & AC CHARGER | |
| Solar Charger type | MPPT |
| Maximum PV Array Power | 6000W |
| MPP Range @ Operating Voltage | 120 ~ 500 VDC |
| Maximum PV Array Open Circuit Voltage | 500 VDC |
| Maximum PV Input Current | 27A |
| Maximum Solar Charge Current | 120A |
| Maximum AC Charge Current | 120A |
| Maximum Charge Current | 120A |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 140 x 295 x 468 |
| Net Weight (kgs) | 12.0 |
| Communication Interface | USB, RS232, RS485, Bluetooth |
| OPERATING ENVIRONMENT | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) |
| Operating Temperature | -10°C to 50°C |
| Storage Temperature | -15°C to 60°C |

Product specifications are subject to change without further notice.



- Maximum PV input current 27A
- Dual outputs for smart load management
- Customizable status LED ring with RGB lights
- Touchable button with 4.3" colored LCD
- Wide DC input range
- Built-in Wi-Fi for mobile monitoring (App is available)
- Reserved communication port for BMS
- Battery independent function
- Parallel operation with up to 9 units



Axpert MKS IV TWIN Off-Grid Inverter Selection Guide

| MODEL | | Axpert MKS IV TWIN 6K |
|---------------------------------------|--|--|
| Rated Power | | 6000VA/6000W |
| INPUT | | |
| Voltage | | 230 VAC |
| Selectable Voltage Range | | 170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) |
| Frequency Range | | 50Hz/60 Hz (Auto sensing) |
| OUTPUT | | |
| AC Voltage Regulation (Batt. Mode) | | 230 VAC ± 5% |
| Overload Capacity | | 5s@≥150% load; 10s@110%~150% load; 100ms @ ≥200% load |
| Efficiency (Peak) | | 93 % |
| Transfer Time | | 10 ms (For Personal Computers) 20 ms (For Home Appliances) |
| Waveform | | Pure sine wave |
| BATTERY | | |
| Battery Voltage | | 48 VDC |
| Floating Charge Voltage | | 54 VDC |
| Overcharge Protection | | 66 VDC |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger type | | MPPT |
| Maximum PV Array Power | | 6000W |
| MPP Range @ Operating Voltage | | 120 ~ 500 VDC |
| Maximum PV Array Open Circuit Voltage | | 500 VDC |
| Maximum PV Input Current | | 27A |
| Maximum Solar Charge Current | | 120A |
| Maximum AC Charge Current | | 120A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | | 140 x 295 x 468 |
| Net Weight (kgs) | | 12.0 |
| Communication Interface | | USB, RS232, RS485, Wifi, Dry-contact |
| ENVIRONMENT | | |
| Humidity | | 5% to 95% Relative Humidity(Non-condensing) |
| Operating Temperature | | -10°C to 50°C |
| Storage Temperature | | -15°C to 60°C |

Product specifications are subject to change without further notice.

OFF- GRID INVERTER

Axpert MAX TWIN



- Dual outputs, for smart load management
- Maximum PV input current increases to 27A
- Wide PV input voltage range 90VDC ~ 450VDC
- Replaceable fan design for ease of maintenance
- Built-in Wi-Fi for mobile monitoring (Android/iOS App is available)
- Compatible to Utility Mains or generator input
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Status indication with RGB lights
- Battery independent design
- Selectable high power charging current
- Supports USB On-the-Go function
- Built-in anti-dust kit
- Parallel operation with 6 units



Axpert MAX TWIN Off-Grid Inverter Selection Guide

| MODEL | Axpert MAX TWIN 8K | Axpert MAX TWIN 11K |
|---------------------------------------|---|---------------------|
| Rated Power | 8000VA/8000W | 11000VA/11000W |
| Parallel Capability | YES, 6 units | |
| INPUT | | |
| Voltage | 230 VAC | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | |
| OUTPUT | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | 230VAC ± 5% |
| Surge Power | 16000VA | 22000VA |
| Efficiency (Peak) | 93% | |
| Transfer Time | 10 ms (For Personal Computers) ; 20 ms (For Home Appliances) | |
| Waveform | Pure sine wave | |
| DC Voltage | 12 VDC ± 5%, 100W | N/A |
| BATTERY | | |
| Battery Voltage | 48 VDC | 48 VDC |
| Floating Charge Voltage | 54 VDC | 54 VDC |
| Overcharge Protection | 66 VDC | 63 VDC |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger Type | MPPT | |
| Maximum PV Array Power | 8000W (4000W x 2) | 11000W (5500W x 2) |
| MPPT Range @ Operating Voltage | 90 ~ 450 VDC | 90 ~ 450 VDC |
| Maximum PV Array Open Circuit Voltage | 500 VDC | 500 VDC |
| Maximum PV Input Current | 27A x 2 (MAX 40A) | |
| Maximum Solar Charge Current | 120A | 150A |
| Maximum AC Charge Current | 120A | 150A |
| Maximum Charge Current | 120A | 150A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 147.4 x 432.5 x 553.6 | |
| Net Weight (kgs) | 18.4 | |
| 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.



- Dual outputs for smart load management
- Two independent AC power sources connected and switched automatically
- Built-in current transformer sensor to meet self-consumption application
- Support external BTS (Battery Temperature Sensor) detection
- Built-in power status lighting indicators
- Built-in 2.8" colored LCD with slide operation
- Built-in Wi-Fi for mobile monitoring and OTA firmware upgrade
- Reserved communication port for BMS (RS485, CAN-BUS or RS232)
- Support optional GFCI, Rapid shutdown, AFCI detections
- Supports USB On-the-Go function
- Parallel operation with 6 units



Axpert Ultra Off-Grid Inverter Selection Guide

| MODEL | Axpert Ultra TWIN 8K | Axpert Ultra TWIN 11K |
|---------------------------------------|--|-----------------------|
| Rated Power | 8000VA/8000W | 11000VA/11000W |
| Parallel Capability | YES, 6 units | |
| INPUT | | |
| Voltage | 230 VAC | |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances) | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | |
| OUTPUT | | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% | |
| Surge Power | 16000VA | 22000VA |
| Efficiency (Peak) | 93% | |
| Transfer Time | 10 ms (For Personal Computers) ; 20 ms (For Home Appliances) | |
| Waveform | Pure sine wave | |
| BATTERY | | |
| Battery Voltage | 48 VDC | |
| Floating Charge Voltage | 54 VDC | |
| Overcharge Protection | 63 VDC | |
| SOLAR CHARGER & AC CHARGER | | |
| Solar Charger Type | MPPT | |
| Maximum PV Array Power | 10000W (5000W × 2) | 12000W (6000W × 2) |
| MPPT Range @ Operating Voltage | 90 ~ 450 VDC | |
| Maximum PV Array Open Circuit Voltage | 500 VDC | |
| Maximum PV Input Current | 27A × 2 (MAX 40A) | |
| Maximum Solar Charge Current | 150A | 150A |
| Maximum AC Charge Current | 120A | 150A |
| Maximum Charge Current | 150A | 150A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 145 × 438 × 553.6 | |
| Net Weight (kgs) | 18.4 | |
| Communication Interface | USB, RS232, RS485, WiFi, Dry-contact, BTS, Support optional GFCI, Rapid shutdown, AFCI detection | |
| External Current Sensor Port | Yes, built-in current transformer sensor | |
| 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.

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar WP TWIN



- IP65 waterproof and dustproof makes the inverter available for various working conditions
- Built-in WiFi for mobile monitoring (App is available)
- 150% unbalanced load support
- Reserved communication port for BMS (RS485)
- Maximum PV input current 27A
- Dual outputs for smart load management
- User-adjustable charging current
- Parallel operation up to 6 units



InfiniSolar WP TWIN Three Phase On-Grid Inverter with Energy Storage Selection Guide

| MODEL | InfiniSolar WP TWIN 15kw |
|--|------------------------------------|
| Maximum PV Input Power | 22500 W |
| Rated Output Power | 15000 W |
| Maximum Charging Power | 15000 W |
| GRID-TIE OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage / Maximum DC Voltage | 720 VDC / 1000 VDC |
| Start-up Voltage / Initial Feeding Voltage | 320 VDC / 350 VDC |
| MPP Voltage Range | 350 VDC ~ 950 VDC |
| Number of MPP Trackers / Maximum Input Current | 2 / A: 27A, B: 27A |
| Number of Strings Per MPP Tracker | A: 2, B: 2 |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 184 - 265 VAC per phase |
| Nominal Output Current | 21.7 A per phase |
| Power Factor Range | 0.9 lag ~ 0.9 lead |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | >96% |
| European Efficiency@ Vnominal | >95% |
| OFF-GRID OPERATION | |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 170 - 290 VAC per phase |
| Maximum AC Input Current | 40A |
| PV INPUT (DC) | |
| Maximum DC Power | 22500 W |
| Maximum DC Voltage | 1000 VDC |
| MPP Voltage Range | 350 VDC ~ 950 VDC |
| Number of MPP Trackers / Maximum Input Current | 2 / A: 27A, B: 27A |
| Number of Strings Per MPP Tracker | A: 2, B: 2 |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Waveform | Pure sine wave |
| Efficiency (DC to AC) | 91% |
| HYBRID OPERATION | |
| PV INPUT (DC) | |
| Maximum DC Voltage | 1000 VDC |
| Start-up Voltage / Initial Feeding Voltage | 320 VDC / 350 VDC |
| MPP Voltage Range | 350 VDC ~ 950 VDC |
| Number of MPP Trackers / Maximum Input Current | 2 / A: 27A, B: 27A |
| Number of Strings Per MPP Tracker | A: 2, B: 2 |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 184 - 265 VAC per phase |
| Nominal Output Current | 21.7 A per phase |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 170 - 290 VAC per phase |
| Maximum AC Input Current | 40A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Efficiency (DC to AC) | 91% |
| BATTERY & CHARGER | |
| Battery Voltage Range | 40 ~ 62 VDC |
| Maximum Charging Current | 300 A |
| GENERAL | |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 255 x 660 x 750 |
| Net Weight (kgs) | 78 |
| INTERACE | |
| Communication Port | RS-232, RS-485, USB, CAN and Wi-Fi |
| Intelligent Slot | Optional for SNMP and Modbus cards |
| ENVIRONMENT | |
| Humidity | 0 ~ 100% RH (Non-condensing) |
| Operating Temperature | -25 to 60°C, > 45°C power derating |
| Altitude | 0 ~ 1000 m** |

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m.

Product specifications are subject to change without further notice.

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar WP



- IP65 waterproof and dustproof
- Built-in third generation SIC MOSEFET improves efficiency
- Built-in communication port for BMS (RS485)
- Accept dual AC inputs, utility power and generator power
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- 150% unbalanced load support
- Parallel operation up to 4 units



InfiniSolar WP Three Phase On-Grid Inverter with Energy Storage Specification

| MODEL | InfiniSolar WP 30kw |
|--|--|
| Maximum PV Input Power | 40000 W |
| Rated Output Power | 30000 W |
| Maximum Charging Power | 30000 W |
| GRID-TIE OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage / Maximum DC Voltage | 720 VDC / 1000 VDC |
| Start-up Voltage / Initial Feeding Voltage | 320 VDC / 350 VDC |
| MPP Voltage Range | 350 VDC ~ 900 VDC |
| Number of MPP Trackers / Maximum Input Current | 3 / A: 26A, B: 26A, C: 26A |
| Number of Strings Per MPP Tracker | A: 2, B: 2, C: 2 |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 184 - 265 VAC per phase |
| Nominal Output Current | 43.5 A per phase |
| Power Factor | 0.9 lag ~ 0.9 lead |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 96.5% |
| European Efficiency@ Vnominal | 96% |
| OFF-GRID OPERATION | |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC per phase |
| Acceptable Input Voltage Range | 170 - 280 VAC per phase |
| Maximum AC Input Current | 50A |
| PV INPUT (DC) | |
| Maximum DC Voltage | 1000 VDC |
| MPP Voltage Range | 350 VDC ~ 900 VDC |
| Number of MPP Trackers / Maximum Input Current | 3 / A: 26A, B: 26A, C: 26A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Waveform | Pure sine wave |
| Efficiency (DC to AC) | 97% |
| HYBRID OPERATION | |
| PV INPUT (DC) | |
| Maximum DC Voltage | 1000 VDC |
| Start-up Voltage / Initial Feeding Voltage | 320 VDC / 350 VDC |
| MPP Voltage Range | 350 VDC ~ 900 VDC |
| Number of MPP Trackers / Maximum Input Current | 3 / A: 26A, B: 26A, C: 26A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Output Voltage Range | 184 - 265 VAC per phase |
| Nominal Output Current | 43.5 A per phase |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC per phase |
| Acceptable Input Voltage Range | 170 - 280 VAC per phase |
| Maximum AC Input Current | 50A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 230 VAC (P-N) / 400 VAC (P-P) |
| Efficiency (DC to AC) | 97% |
| BATTERY & CHARGER | |
| Battery Voltage Range | 500 ~ 900 VDC |
| Maximum Charging Current | 50 A |
| GENERAL | |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 255 x 660 x 750 |
| Net Weight (kgs) | 73 |
| INTERACE | |
| Communication Port | RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi |
| Intelligent Slot | Optional SNMP, MODBUS and GPRS |
| ENVIRONMENT | |
| Humidity | 0 ~ 100% RH |
| Operating Temperature | -25°C to 60°C (> 45°C De-rating) |
| Altitude | 0 ~ 1000 m** |

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m. Product specifications are subject to change without further notice.

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar V IV TWIN



- Maximum PV input current 27A
- Dual outputs for smart load management
- Touchable button with 4.3" colored LCD
- Self-consumption and Feed-in to the grid
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in Wi-Fi for mobile monitoring (App is available)
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Reserved communication port for BMS
- Parallel operation up to 9 units



InfiniSolar V IV TWIN On-Grid Inverter with Energy Storage Selection Guide

| MODEL | InfiniSolar V IV TWIN 6KW |
|--|---|
| Phase | 1-phase in / 1-phase out |
| Maximum PV Input Power | 6000W |
| Rated Output Power | 6000W |
| Maximum Charging Power | 6000W |
| GRID-TIE OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage / Maximum DC Voltage | 360 VDC / 500 VDC |
| Start-up Voltage / Initial Feeding Voltage | 120VDC / 150 VDC |
| MPP Voltage Range | 120 VDC ~ 430 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 27A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Output Voltage Range | 184 - 264.5 VAC or 195.5 - 253 VAC (Selectable) |
| Nominal Output Current | 26A |
| Power Factor | > 0.9 |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 95% |
| OFF-GRID OPERATION | |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 90 - 280 VAC or 170 - 280 VAC |
| Maximum AC Input Current | 40A |
| PV INPUT (DC) | |
| Maximum DC Voltage | 500 VDC |
| MPP Voltage Range | 120 VDC ~ 430 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 27A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Output Waveform | Pure sinewave |
| Efficiency (DC to AC) | 93% |
| HYBRID OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage / Maximum DC Voltage | 360 VDC / 500 VDC |
| Start-up Voltage / Initial Feeding Voltage | 120VDC / 150 VDC |
| MPP Voltage Range | 120 VDC ~ 430 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 27A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Output Voltage Range | 184 - 264.5 VAC or 195.5 - 253 VAC (Selectable) |
| Nominal Output Current | 26A |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 90 - 280 VAC or 170 - 280 VAC |
| Maximum AC Input Current | 40A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Efficiency (DC to AC) | 93% |
| BATTERY & CHARGER | |
| Nominal DC Voltage | 48 VDC |
| Maximum Solar Charging Current | 120A |
| Maximum AC Charging Current | 120A |
| Maximum Charging Current | 120A |
| GENERAL | |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 140 x 295 x 468 |
| Net Weight (kgs) | 12 |
| INTERACE | |
| Parallel Function | Yes, 9 units |
| Communication Port | USB, RS232, RS485, Wifi, Dry-contact |
| ENVIRONMENT | |
| Humidity | 0 ~ 90% RH (Non-condensing) |
| Operating Temperature | -10 to 50°C |

Product specifications are subject to change without further notice.



- Dual outputs for smart load management
- IP65 waterproof and dustproof makes the inverter available for various working conditions



- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup



- Programmable supply priority for PV, Battery or Grid



- Built-in communication port for BMS (RS485), Wi-Fi
- Self-consumption and Feed-in to the grid
- User-adjustable charging current and voltage
- Parallel operation up to 9 units



Infini V4 WP On-Grid Inverter with Energy Storage Selection Guide

| MODEL | Infini V4 WP 6kw |
|--|--|
| Phase | 1-phase in / 1-phase out |
| Maximum PV Input Power | 7000W |
| Rated Output Power | 6000VA / 6000W |
| Maximum Charging Power | 6000W |
| GRID-TIE OPERATION | |
| PV INPUT (DC) | |
| Nominal DC Voltage / Maximum DC Voltage | 550 VDC |
| Start-up Voltage / Initial Feeding Voltage | 120VDC / 150 VDC |
| MPP Voltage Range | 120 VDC ~ 430 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 30A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Output Voltage Range | 184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable) |
| Nominal Output Current | 26A |
| Power Factor | > 0.9 |
| EFFICIENCY | |
| Maximum Conversion Efficiency (DC/AC) | 97% |
| OFF-GRID OPERATION | |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 90 - 280 VAC or 170 - 280 VAC |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) |
| Maximum AC Input Current | 40A |
| PV INPUT (DC) | |
| Maximum DC Voltage | 500 VDC |
| MPP Voltage Range | 120 VDC ~ 430 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 30A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Output Waveform | Pure sinewave |
| Efficiency (DC to AC) | 93% |
| HYBRID OPERATION | |
| PV INPUT (DC) | |
| Maximum DC Voltage | 550 VDC |
| Start-up Voltage / Initial Feeding Voltage | 120VDC / 150 VDC |
| MPP Voltage Range | 120 VDC ~ 450 VDC |
| Number of MPP Trackers / Maximum Input Current | 1 / 30A |
| GRID OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Output Voltage Range | 184 - 264.5 VAC or 195.5 - 253 VAC or 184 - 264.4 VAC (Selectable) |
| Nominal Output Current | 26A |
| AC INPUT | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC |
| Acceptable Input Voltage Range | 90 - 280 VAC or 170 - 280 VAC |
| Maximum AC Input Current | 40A |
| BATTERY MODE OUTPUT (AC) | |
| Nominal Output Voltage | 220/230/240 VAC |
| Efficiency (DC to AC) | 93% |
| BATTERY & CHARGER | |
| Nominal DC Voltage | 48 VDC |
| Maximum Solar Charging Current | 120A |
| Maximum AC Charging Current | 120A |
| Maximum Charging Current | 120A |
| GENERAL | |
| PHYSICAL | |
| Dimension, D x W x H (mm) | 192 x 360 x 665 |
| Net Weight (kgs) | 22.5 |
| INTERACE | |
| Parallel Function | Yes, 9 units |
| Communication Port | USB or RS-232/Dry Contact/RS485/Wi-Fi |
| ENVIRONMENT | |
| Humidity | 0 ~ 95% RH (No condensing) |
| IP degree | IP65 |
| Operating Temperature | -25 to 50°C |

ON-GRID INVERTER WITH ENERGY STORAGE

InfiniSolar VII 3 Phase



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- 3 MPPT Inputs up to 180A solar charging current at 48Vdc battery voltage



InfiniSolar VII 3-phase in/3-phase out On-Grid Inverter With Energy Storage Selection Guide

| MODEL | InfiniSolar VII 3P-6KW | InfiniSolar VII 3P-9KW | InfiniSolar VII 3P-15KW |
|--|---|------------------------|-------------------------|
| PHASE | 3-phase in / 3-phase out | | |
| Max. PV Array Power | 9000W | 12000W | 15000W |
| Rated Output Power | 6000W | 9000W | 15000W |
| Maximum PV Array Open Circuit Voltage | 450 VDC | 450 VDC | 450 VDC |
| MPPT Range @ Operating Voltage | 120 VDC ~ 430 VDC | 120 VDC ~ 430 VDC | 120 VDC ~ 430 VDC |
| MPP Tracker Number | 3 | 3 | 3 |
| GRID-TIE OPERATION | | | |
| GRID OUTPUT (AC) | | | |
| Nominal Output Voltage | 220/230/240 VAC (P-N) / 380/400/415 VAC (P-P) | | |
| Output Voltage Range | 195.5 - 253 VAC per phase @ India Regulation 184 - 264.5 VAC per phase @ German Regulation | | |
| Nominal Output Current | 8.7 A per phase | 13 A per phase | 21.7 A per phase |
| Power Factor | > 0.99 | | |
| EFFICIENCY | | | |
| Maximum Conversion Efficiency (DC/AC) | 95% | 95% | 95% |
| OFF-GRID, HYBRID OPERATION | | | |
| GRID INPUT | | | |
| AC Start-up Voltage / Auto Restart Voltage | 120 - 140 VAC / 180 VAC per phase | | |
| Acceptable Input Voltage Range | 90 - 280 VAC or 170 - 280 VAC per phase | | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | | |
| Maximum AC Input Current | 20 A per phase | 30 A per phase | 30 A per phase |
| BATTERY MODE OUTPUT (AC) | | | |
| Nominal Output Voltage | 220/230/240 VAC per phase | | |
| Output Waveform | Pure sine wave | | |
| Efficiency (DC to AC) | 93% | | |
| BATTERY & CHARGER | | | |
| Nominal DC Voltage | 48 VDC | | |
| Maximum Solar Charge Current | 180 A | | |
| Maximum AC Charge Current | 180 A | | |
| Maximum Charge Current | 180 A | | |
| GENERAL | | | |
| PHYSICAL | | | |
| Dimension, D x W x H (mm) | 588 x 260 x 655 | | |
| Net Weight (kgs) | 36 | 38 | 40 |
| INTERFACE | | | |
| Communication Ports | USB, RS-232 and dry contact | | |
| ENVIRONMENT | | | |
| Humidity | 0 ~ 90% RH (Non-condensing) | | |
| Operating Temperature | 0 to 50°C | | |

Product specifications are subject to change without further notice.