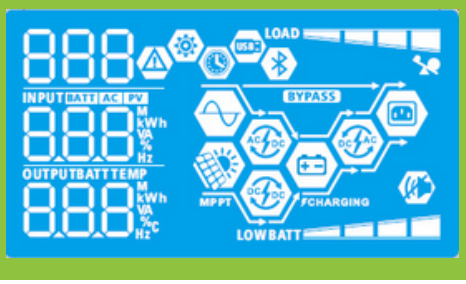
# Renovo Axpert VM III TWIN O!-Grid Inverter




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

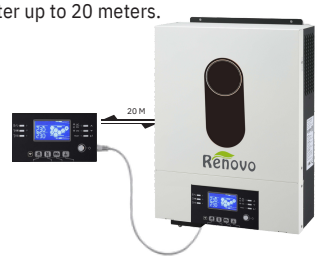
Designed with 27A PV input current, Axpert VM III TWIN is compatible to the market trend of increased Imp in solar panel.

## • 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

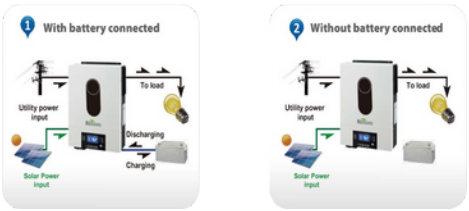
This third generation inverter is reserved communication port for BMS. For the detailed information, please contact sales directly.

## • 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.

# Renovo Axpert VM III TWIN O!-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)<br>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)<br>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 | 120 | 120 |
| Maximum AC Charge Current | A | A |
| Maximum Charge Current | 100 | 100 |
| | A | A |
| PHYSICAL | | |
| Dimension, D x W x H (mm) | 120<br>115 x 300 x 435 | 120 |
| Net Weight (kgs) | A<br>9 | A<br>10 |
| Communication Interface | USB/RS232/RS485/WiFi/Dry-contact | |
| OPERATING ENVIRONMENT | | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) | |
| Operating | -10°C to 50°C | |
| Temperature Storage | -15°C to 60°C | |

Temperature

Product specifications are subject to change without further notice.