



 **Solar Technologies**

## V IV TWIN 6KW

- ✧ **Maximum PV input current 27A**
- ✧ **Dual outputs for smart load management**
- ✧ **Touchable button with 4.3" colored LCD**
- ✧ **Customizable status LED ring with RGB lights**
- ✧ **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**
- ✧ **Built-in Wi-Fi for mobile monitoring (Android/iOS App available)**
- ✧ **Reserved communication port for BMS**
- ✧ **Parallel operation up to 9 units**

**7000 PV  
Array**



<b>MODEL</b>	<b>V IV TWIN 6KW</b>
Maximum PV Input Power	7000W
Rated Output Power	6000W
Maximum Charging Power	6000W
<b>GRID-TIE OPERATION</b>	
<b>PV INPUT (DC)</b>	
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
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency (DC/AC)	96%
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
<b>OFF-GRID OPERATION</b>	
<b>AC INPUT</b>	
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	40 A
<b>PV INPUT (DC)</b>	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 430 VDC
Number of MPP Trackers / Maximum Input Current	1 / 27A
<b>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
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
<b>GRID OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)
Nominal Output Current	26A
<b>AC INPUT</b>	
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	40 A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120 A
Maximum AC Charging Current	120 A
Maximum Charging Current	120 A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension, D X W X H (mm)	140 x 295 x 468
Net Weight (kgs)	12 KG
<b>INTERFACE</b>	
Parallel Function Yes,	9 units
Communication Port	USB, RS-232, Dry Contact and WiFi