

# SIMTEK®

## MPPT SOLAR INVERTER

ON-GRID - OFF-GRID - GRID-TIE WITH BACKUP

*Crop The Green Energy*



- Max PV Input Current 27 Amps
- Three Color Touch Screen LCD Front Panel
- Dual Output for Heavy & Light Load Management
- Work With / Without Battery
- Parallel Operation Up to 9 Units

- Lithium Battery Supported Via BMS Port
- Grid-Tie Operation
- Built In Zero Export Function
- Built In Wi-Fi Mobile APP Monitoring

## SIMREX SERIES (DUAL)



www.simtek.com.pk

MODEL	INFINI V IV 6KW TWIN
Phase	1-Phase in / 1-Phase Out
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	360VDC / 500VDC
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
Power Factor	> 0.99
<b>EFFICIENCY</b>	
Maximum Conversion Efficiency ( DC/AC)	96%
<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 / 27 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>HYBRID OPERATION</b>	
<b>PV INPUT (DC)</b>	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	120 VDC / 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	40A
<b>BATTERY MODE OUTPUT (AC)</b>	
Nominal Output Voltage	220/230/240 VAC
Efficiency ( DC to AC)	93%
<b>BATTERY &amp; CHARGER</b>	
Nominal DC Voltage	48 VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
<b>GENERAL</b>	
<b>PHYSICAL</b>	
Dimension D x W x H (mm)	140 x 295 x 468
Net Weight (kg)	12
<b>INTERFACE</b>	
Parallel Function	Yes, 9 Units
Communication Port	USB/RS232/RS485/Wi-Fi/Dry-Contact
<b>ENVIRONMENT</b>	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	-10 to 50°C