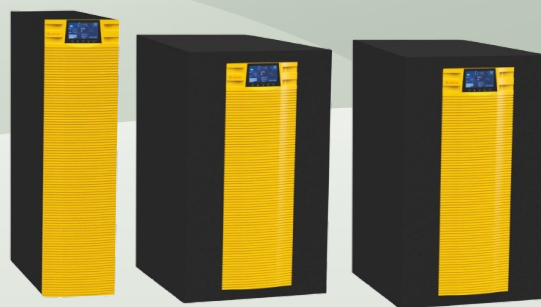


**Features:**

- ▶ Hybrid charging Charging from both mains and solar.
- ▶ Real-Time Chock.
- ▶ Multicolor Lcd Display.
- ▶ More reliable & efficient single card solution

**VIPS 10 KVA/180V Off-Grid Solar Inverter:**

- ▶ Rated AC power: 10KVA, 120V/180V.
- ▶ Operating Voltage 100V-280V.
- ▶ Provision for the setting of critical parameters as per user requirement, like, Time, Boost Battery Voltage, Solar Max charging current, Battery Low Cut voltage etc.
- ▶ Max supported panel power: 120V/180V up to 12000Wp.
- ▶ Charge Controller Rating – 70A/120V-50A/180V, with 98% efficiency for fast charging.
- ▶ Intelligent Battery Charging and Charge Sharing with Mains/Charging by solar power only.

VIPS 40 KVA/360V Off-Grid Solar Inverter:

- ▶ Rated AC Power - 40000 VA.
- ▶ Output Voltage- 400V $\pm$ 2 % 3 phase.
- ▶ Full load Output Current- 46.4 A per phase.
- ▶ Max Supported Panel Power - [70.0 Amp x (Specified Vdc x 1.5)] Wp.
- ▶ Display Load Sharing from Solar.
- ▶ Inbuilt fully regulated charge controller.
- ▶ Intelligent Multicolour LCD display for all system parameters.

VIPS 50KVA-360V Off-Grid Solar Inverter:

- ▶ Smart Hybrid Off Grid Function through Real Time Clock.
- ▶ User-friendly multicolour LCD Display.
- ▶ Interactive multi-colour big graphical display.
- ▶ Remote Monitoring & Controlling of PCU through Wi-Fi/LAN/GPRS/Android App(Optional).
- ▶ More reliable & efficient single-card solution.

Specifications

Models	3 PHASE - 10KVA-120V	3 PHASE - 40KVA-360V	3 PHASE - 50KVA-360V
Capacity (VA)	10KVA	40KVA	50KVA
Nominal Battery Voltage (VDC)	120V	360	360
No. of MPPT Channels	1	2	3
Charge Controller Amp. Rating(A)	83.5	111	139
MPPT Efficiency (with Battery)	97%	97%	97%
Max. PV Input Power (Wp)	9850-11550	40500-43000	51000-53000
Maximum PV Input Voltage (Voc)	400	870	870
PV Input MPPT Voltage Range (Vmp)	170-340	495-690	495-690
Output AC Current per phase (A)	11.5 $\pm$ 0.5	46.4 $\pm$ 0.5	58.5 $\pm$ 0.5
Net Quantity	1 UNIT	1 UNIT	1 UNIT

Technical Specifications

SR. No.	TECHNICAL PARAMETERS		SPECIFICATION			
A	BATTERY MODE		10KVA-120V	40KVA-360V	50KVA-360V	
A.1	No Load Battery Current (NLC)		< 2.0A	< 2.0A	< 2.0A	
A.2	O/P Voltage at No Load	N-(R-Y-B)	230 ± 3 %	230 ± 3 %	230 ± 3 %	
A.3	O/P Voltage at full Load @ nominal Battery Voltage	N-(R-Y-B)	230 ± 3 %	230 ± 3 %	230 ± 3 %	
A.4	Full Load O/P Current	N-(R-Y-B)	11.6 ± 0.5A	46.4 ± 1A	58 ± 1A	
A.5	Overload Retry			6 Times		
A.6	Overload Limit each Phase on Load	105%	~105 Sec.	~105 Sec.	~105 Sec.	
		125%	~20 Sec.	~20 Sec.	~20 Sec.	
		150%	~15 Sec.	~15 Sec.	~15 Sec.	
		200%	~5 Sec.	~5 Sec.	~5 Sec.	
A.7	Output Frequency (Inverter Mode)		50.0 ± 1 Hz	50.0 ± 1 Hz	50.0 ± 1 Hz	
A.8	Output Sine Wave (Inverter)		Sine wave	Sine wave	Sine wave	
B	MAINS MODE			Sine wave	Sine wave	
B.1	Sine Wave on Output side		N-(R-Y-B)	Sine wave	Sine wave	
B.2	Mains Low Cut		N-(R-Y-B)	155 ± 10V	155 ± 10V	
B.3	Mains Low Cut Recovery		N-(R-Y-B)	165 ± 10V	165 ± 10V	
B.4	Mains High Cut		N-(R-Y-B)	280 ± 10V	280 ± 10V	
B.5	Mains High Cut Recovery		N-(R-Y-B)	270 ± 10V	270 ± 10V	
C	Change Over Time					
C.1	Mains to Inverter		<80 ms	<80 ms	<80 ms	
C.2	Inverter to Mains		<10ms	<10ms	<10ms	
C.3	Total no. of Battery		10 nos	30 nos	30 nos	
C.4	High Charging Current (Default)		15 ± 2A	15 ± 2A	15 ± 2A	
C.5	Normal Charging Current		10 ± 2A	10 ± 2A	10 ± 2A	
C.6	Boost Charging Voltage ± 0.2V Per Batt		14.2 ± 0.2V Per Batt.	14.2 ± 0.2V Per Batt.	14.2 ± 0.2V Per Batt.	
C.7	Trickle Charging Voltage ± 0.2V Per Batt		13.7 ± 0.2V Per Batt.	13.7 ± 0.2V Per Batt.	13.7 ± 0.2V Per Batt.	
C.8	Input/output Phase seq.			R,Y,B (Provided)		
C.9	DC current isolation			By Inbuilt Transformer		
D	Protections					
D.1	Short Circuit Protection (Battery Mode)		Provided			
D.2	Short Circuit Reset (Battery Mode)		Through ON/OFF Switch or Mains			
D.3	Short Circuit, Retry (Battery Mode)		NO Retry			
D.4	Over Temperature Protection With Alarm		Provided			
D.5	Battery Low Buzzer		10.8V ± 0.2V Per Batt.			
D.6	Battery Low Cut		10.5V ± 0.2V Per Batt.			
D.7	Battery Low Shut Down Reset		Through ON/OFF Switch , Mains or Solar			
D.8	Battery Low , Retry		4 Times			
D.9	Over Load Protection with Alarm		Provided			
D.10	Over Load Shut Down Reset		Through ON/OFF Switch or Mains			
D.11	Mains MCB Trip Protection		Provided			
D.12	PV Reverse Protection					
E	Solar Charge Controller With Real Time Clock					
E.1	Solar Charge (MPPT CHARGE CONTROLLER)		10 KW/84 A	40 KW/111 A	50 KW/139 A	
E.2	Charge Controller Type		2 INPUT - 1 CHANNEL INTERLEAVED MPPT	4 INPUT - 2 CHANNEL INTERLEAVED MPPT	5 INPUT - 3 CHANNEL INTERLEAVED MPPT	
E.3	Max PV input Power		9850-11550 Watt	40500-43000 Watt	51000-53000 Watt	
E.4	Max Solar Input Voltage range (Vmpp)		170V-340V	495V-690V	495V-690V	
E.5	Max Solar DC Input Voltage (Voc)		400 V	870 V	870 V	
E.6	Solar Battery Charging Current (settable)			40 Amps.(default) Settable from 5 to 50 Amps for Battery		
E.7	Solar Input Current Per Chanel		40 Amp Max	40 Amp Max.	35 Amp Max	
Display						
1) Battery Voltage						
2) Output Volatage (R,Y,B Phase)						
3) Load % at Battery mode (R,Y,B Phase)						
4) Input Volatage (R,Y,B Phase)						
5) Load % at mains mode (R,Y,B Phase)						
6) Mains charging Current						
7) Solar charging Current						
8) Real Time Clock						
9) Power Saving From Solar In Kw/h						
10) Multi Colour LCD						
11) All Protections Display						
12) Display Load Sharing from Solar						
13) Setting Parameter						
LOGIC:	Smart Solar Selection Logic based on built in Real Time Clock.					
	Provision for Charging by Solar Power Only.					
	Provision for setting Critical Parameters of Solar.					
	Ability to provide rated output power directly from solar panels (if solar is available) in addition charges the battery					
	Intelligently give the priority to solar power and take the balance from Mains.					