

Features:

- ▶ Pure Sine Wave Technology.
- ▶ Real-Time Clock.
- ▶ Multicolor Lcd Display.
- ▶ Smart Phone & Wi-fi Controlling (Optional).

**Advantages & Applications:**

- ▶ Intelligent Solar Selection based on a built-in Real Time Clock (R.T.C.).
- ▶ Maximum utilization of Solar Power through monitoring of abrupt weather conditions.
- ▶ 50 Amp. PWM built-in Solar Charge Controller.
- ▶ Maximum Grid Power Saving by charging through the "Power Saving" button.
- ▶ Remote Monitoring & Controlling of the System through Wi-fi / GSM / Bluetooth Via Web or Android App. (Optional).
- ▶ Battery Charging at Low mains (90 volts) for longer Backup & Battery life.
- ▶ Solar KWH used on digital display.
- ▶ Provision for setting Critical Parameters of Solar.
- ▶ Solar PV reverse voltage protection.
- ▶ Electronic over current charging protection.
- ▶ Advanced Pure Sine Wave Technology.
- ▶ Interactive Multicolor LCD display.

Specifications

MODEL	VIPS DY - 1200	VIPS DY - 6500	VIPS DY- 18000/240
Capacity (VA)	925VA	5350 VA	15KVA
Nominal Ba. Volt (VDC)	12V	48V	240V
Charge Controller Type	PWM BASED		
Charge Controller Rating	50A	70A	50A
Maximum PV Power	900W	5880W	17000W
Maximum PV Input Volt (Voc)	25V	100V	430V
PV Operand Range (VMPP)	15-18V	60-84V	300V-340V
Battery Boost Volt. (Per Batt. Default)	14.4V	14.4V	14.4V
Battery Low Cut Per Batt. Default)	10.6V	10.6V	10.4V
Grid Charging Current (HC)	17±Amp	24±Amp	16±Amp
Solar Charging Current	40 Amp (Default) Stable from 5 to 50 Amp for battery		
Grid InpuRange (Normal Mode)	90-290V	100-290V	100-280V



Technical Specifications

S.No	TECHNICAL PARAMETERS	SPECIFICATION	VIPS DY-6500	VIPS DY-18000/240
A	BATTERY MODE			
A.1	No Load Current @ Switch OFF	≤ 120 mA	≤ 240 mA	≤ 180 mA
A.2	Battery Voltage @ No LOAD	12V	48V	240V
A.3	Output Voltage @ No LOAD	225 ± 7V	225 ± 7V	230V ± 3%
A.4	Output Frequency	50 ± 1Hz	50 ± 1Hz	50Hz± 1Hz
A.5	Output AC Current @ Full LOAD	65 ± 1 Amp.	19.5 ± 0.5A	52A±0.5A
A.6	Battery Current @ Full LOAD		104 ± 1 Amp	55 ± 1 Amp.
A.7	Fan Run operation	Fan Operates Properly (Fan runs for 3 sec only).	Fan Operates Properly (Fan runs for 3 sec only).	Fan Operates Properly
A.8	Harmonic distortion in O/P wavefrom(Resistive load)	≤ 3%	≤ 3%	≤ 3%
B	UPS MODE			
B.1	Low Cut With Phase Match	180 ± 10V	180 ± 10V	180 ± 10V
B.2	Low Cut Recovery With Phase Match	9-12V Hysteresis from > Low Cut Voltage	9-12V Hysteresis from > Low Cut Voltage	9-12V Hysteresis from > Low Cut Voltage
B.3	High Cut With Phase Match	270 ± 10V	270 ± 10V	260 ± 10V
B.4	High Cut Recovery With Phase Match	9-12V Hysteresis from < High Cut Voltage	9-12V Hysteresis from < High Cut Voltage	9-12V Hysteresis from < High Cut Voltage
B.5	Change Over Time From Mains To UPS	≤ 10msec	≤ 10msec	≤ 10msec
B.6	Change Over Time From UPS To Mains	≤ 8msec	≤ 10msec	≤ 10msec
C	NORMAL MODE			
C.1	Low Cut With Phase Match	90 ± 10V	100 ± 10V	100 ± 10V
C.2	Low Cut Recovery With Phase Match	9-12V Hysteresis > Low Cut Voltage	9-12V Hysteresis > Low Cut Voltage	9-12V Hysteresis > Low Cut Voltage
C.3	High Cut With Phase Match	290 ± 10V	290 ± 10V	280 ± 10V
C.4	High Cut Recovery With Phase Match	9-12V Hysteresis < High Cut Voltage	9-12V Hysteresis < High Cut Voltage	9-12V Hysteresis < High Cut Voltage
C.5	Change Over Time From Mains To UPS	≤ 20msec	≤ 40msec	≤ 40msec
C.6	Change Over Time From UPS To Mains	≤ 10msec	≤ 10msec	≤ 10msec
D	CHARGING MODE			
D.1	Low Charging Current @ 220V AC (NC)	13.0 ± 1.0A	18 Amp ± 1 Amp	12.0 ± 1.0A
D.2	High Charging Current @ 220V AC (HC)	17.0 ± 1.0A	24 Amp ± 1 Amp (Default)	16.0 ± 1.0A
D.3	Boost Charging Voltage (HC/NC)	14.4 ± 0.2V	14.4 ± 0.2V (per Battery)	14.4 ± 0.2V (per Battery)
D.4	Float Charging Voltage (HC/NC)	13.7 ± 0.2V	13.7 ± 0.2V (per Battery)	13.7 ± 0.2V (per Battery)
E	Solar Charge Controller With Real Time Clock			
E.1	Solar Charge Controller	50 Amps.	70 Amps.	50 Amp
E.2	Charge Controller Type	PWM based	PWMbased	PWM based
E.3	Max PV input Power	900 Watt	5880Watt	17000 Watt
E.4	Max Solar DC Input Voltage (Voc)	25 V	100V	430V
E.5	Solar Input Voltage range (Vmpp)	15-18V	60-84V	300-340V
E.6	Solar Battery Charging Current (settable)	40 Amps.(default)	40 Amps.(default)	40 Amps.(default)
F	PROTECTIONS			
F.1	Over Load Protection with Alarm	Over Load Shut Down After 6 Auto Retries;	Over Load Shut Down After 6 Auto Retries;	Over Load Shut Down After 6 Auto Retries;
F.2	Over Load Shut Down Reset	Through ON/OFF Switch or Mains	Through ON/OFF Switch or Mains	Through ON/OFF Switch or Mains
F.3	Battery Low Alarm	10.8± 0.2V (per Battery)	10.8± 0.2V (per Battery)	10.8± 0.2V (per Battery)
F.4	Battery Low Protection	Battery Low Shut Down After 4 Auto Retries;	Battery Low Shut Down After 4 Auto Retries;	Battery Low Shut Down After 4 Auto Retries;
F.5	Battery Low Shut Down Reset	Through ON/OFF Switch , Mains or Solar	Through ON/OFF Switch , Mains or Solar	Through ON/OFF Switch , Mains or Solar
F.6	Over Temperature Protection With Alarm	should be OK(95 ± 5 °C)	should be OK(95 ± 5 °C)	should be OK(90 ± 5 °C);
F.7	Short Circuit Protection (Backup Mode)	Should be functional	YES	YES
F.8	Short Circuit Retry	One	One	One
F.9	Short Circuit Reset	Through ON/OFF Switch or Mains	Through ON/OFF Switch or Mains	Through ON/OFF Switch or Mains
F.10	Mains MCB Trip	Should be functional	Should be functional	YES
F.11	P.V. REVERSE PROTECTION	Available	Available	AVAILABLE
Accessible Parameters Via Operating Display				
1. AC Mains voltage				
2. O/P Load in %				
3. Battery input voltage				
4. Battery Charging/ Discharging current (Bar Graph)				
5. Solar KWH used				
6. Solar Status				
7. Warnings or Protections Status				
i) Overload				
ii) Short Circuit				
iii) Fuse/AC MCB Trip (OFF and ON the System afterreset the MCB to reset the protection)				
iv) Over Temp.				
v) Empty 'Battery' Blinking				
vi) PV Reverse Protection				
Logic:	Smart Solar Selection Logic based on built in Real Time Clock (SL-1,SL-2,SL-3).			
	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.			