

# SUN PRO

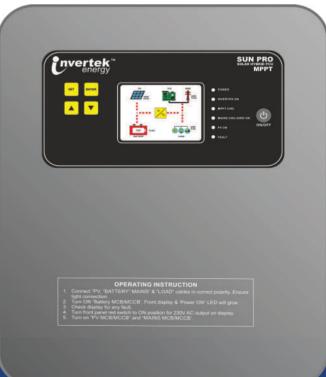
**SOLAR HYBRID PCU** 

## MPPT

**5KVA-5KW - 10KVA-10KW** 











### **5KVA - 5KW/48V**

#### **Features**

- ▶ DSP Pure Sine wave Solar PCU MPPT Technology Using Heavy Duty Mosfet.
- ► Intelligent Sharing Solar Priority To Save More Electricity.
- ► Solar Preference Charging For Battery To Reduce The Power Used From Grid.
- ► Built In Solar Charge Controller 100 Amp
- Built In Galvanic Isolation Transformer
- MNRE Approved
- Active Front End Charger
- ► Low Input Current Distortion
- Efficiency 90%
- ► Can Be Upgraded To Grid Export Hybrid PCU at Any Time.
- ► MCB AC, DC, Solar Used
- ► Manual Bypass Rotary Type
- ► Remote Monitoring Device Available



## 10KVA-10KW/96V-120V

#### **Features**

- ▶ DSP Pure Sine wave Solar PCU MPPT Technology Using Heavy Duty Mosfet.
- ► Intelligent Sharing Solar Priority To Save More Electricity.
- Solar Preference Charging For Battery To Reduce The Power Used From Grid.
- ► Built In Solar Charge Controller 80 Amp
- ► Built In Galvanic Isolation Transformer
- ► MNRE Approved
- Active Front End Charger
- ► Low Input Current Distortion
- ► Efficiency 90%
- ► Can Be Upgraded To Grid Export Hybrid PCU at Any Time.
- ► MCB AC, DC, Solar Used
- ► Manual Bypass Rotary Type
- ► Remote Monitoring Device Available







#### 10KVA-10KW/120V

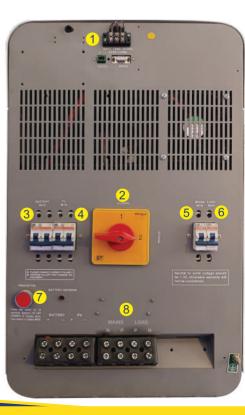
#### **Features**

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- ► Active Front End Charger
- ► Low Input Current Distortion
- ► Efficiency 90%
- ► Can Be Upgraded To Grid Export Hybrid PCU at Any Time.
- ► MCB AC, DC, Solar Used
- ► Manual Bypass Rotary Type
- ► Remote Monitoring Device Available



## **Rear View**

- 1. Batt. Temp. Signal
- 2. Manual Bypass Switch
- 3. Battery MCB
- 4. PV MCB
- 5. Mains MCB
- 6. Load MCB
- 7. Push Button
- 8. Mains Load







#### **TECHNICAL SPECIFICATION**

A. SOLAR CHARGE CONTROLLER (SCC)           1         Charger Type & Topology         Buck Type MPPT           2         PV Total Nominal Capacity (KVA)         5KW           3         No. of MPPT Channels         1           4         Per Channel PV Capacity (w) (Nominal Peak)         5KW/5.5KW           5         Max. Open Circuit PV Volts (Voc)         240           6         MPPT Voltage Range (Volts)         96-300           7         PV Minimum Voltage (Volts)         48		
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4         Per Channel PV Capacity (w) (Nominal Peak)         5KW/5.5KW           5         Max. Open Circuit PV Volts (Voc)         240           6         MPPT Voltage Range (Volts)         96-300	10KW	
5 Max. Open Circuit PV Volts (Voc) 240 6 MPPT Voltage Range (Volts) 96-300	1	
5 Max. Open Circuit PV Volts (Voc) 240 6 MPPT Voltage Range (Volts) 96-300	10KW/11KW	
6 MPPT Voltage Range (Volts) 96-300	400	
, I make the same that the sam	140-400 96V/120	
8 Max. I/P Amps Per Channel (Amps) 75	60	
9 Max. Battery Amps during PV Charging (Amps) 100	80	
10 Battery type supported VRLA / Line		
11 Min. Battery AH (Suggested) 150	150	
B. Solar Inverter	233	
1 No. of Phase/Connection Type 1-Phased /2 wire		
2 Nominal battery voltage (Volts) 48	96/120	
	or Li-Lon/Li-Ph (User Settable)	
4 Nominal Output Voltage/Frequency (Votls/Hz) 230/50		
5 Nominal KVA Capacity ( KVA) 5KVA	10KVA	
6 Output Amps 17.39	34.78	
7 Voltage Regulations( In Standalore Mode) 17.39	34.78	
8 Freq. Regulation (in Standalore Mode) ±2%	1 3 3	
8		
40 1 10 5		
14 Auto Bypass Feature Provided		
C. GRID CHARGER		
	(Phase to Nutral)	
	Hz ±5%	
3 Max Grid Import Power (KVA) 5KVA	10KVA	
4 Max Battery Amps During Grid Charging (Amps) 68	54	
	>87	
INVERTER (KW) 4	8	
	rity, Surg Protection	
	Jnder Voltage, Current Limit	
	equency, Anti-Islanding, Surg Protection	
	, Short Circuit	
5 System Protection Over Temperature Trip, Breakers at all Inputs, Emergency stop		
D. USER INTERFACE	DICAL DICRIAY	
1 DISPLAY INTERFACE LCD NUMB	RICAL DISPLAY	
1     DISPLAY INTERFACE     LCD NUME       2     DISPLAYED PARAMETERS     VRLA/LMLA/Li-lo	on/Li-Ph (User Suitable)	
1     DISPLAY INTERFACE     LCD NUME       2     DISPLAYED PARAMETERS     VRLA / LMLA / Li-Id       1     Battery Parameters     Voltage, Charging Current, Discharging Current, Charging State-Id	on/Li-Ph (User Suitable) AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Charging/Discharging	
1     DISPLAY INTERFACE     LCD NUME       2     DISPLAYED PARAMETERS     VRLA / LMLA / Li-Ic       1     Battery Parameters     Voltage, Charging Current, Discharging Current, Charging State-Color       2     PV Parameters     Voltage, Current , Power,	on/Li-Ph (User Suitable) AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Charging/Discharging Cumulative, Today Generation	
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1 DISPLAY INTERFACE 2 DISPLAYED PARAMETERS 3 VRLA / LMLA / Li-le 1 Battery Parameters 4 Voltage, Charging Current, Discharging Gurrent, Charging State-d 2 PV Parameters 5 Voltage, Current, Power, 4 Load Parameters 6 Voltage, Current, Frequency, Import Pd 4 Load Parameters 7 Voltage, Current, Frequency, Import Pd 5 Data Logging 7 Data Logging 8 O Days PV Generation, 6 System Level 7 Faults at 8 INDICATION/ PROTECTION	on/Li-Ph (User Suitable)  AH-in AH-out, Cumulative AH-in, Cumulative AH-out, AH-in AH-out, Cumulative AH-in, Cumulative AH-out, And and AH-out, AH-in AH-out, Cumulative, Today Generation  Dower, Import Cumulative, Today Generation  Power, Cumulative, Power Factor  Import Energy, Load Energy.  Ind Wamings	
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1 DISPLAY INTERFACE 2 DISPLAYED PARAMETERS 3 VRLA / LMLA / Li-It 1 Battery Parameters 4 Voltage, Charging Current, Discharging Current, Discharging State-It 2 PV Parameters 5 Voltage, Current, Power, 4 Load Parameters 6 Voltage, Current, Frequency, Import Potential	on/Li-Ph (User Suitable) AH-in AH-out, Cumulative AH-in, Cumulative AH-out, AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Anarian/Discharging Ower, Import Cumulative, Today Generation Power, Cumulative, Power Factor Import Energy, Load Energy. Ind Wamings In, Grid Import Mode . Fault, HYBRID/OFF GRID Mode Settings Input Divided	
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1 DISPLAY INTERFACE 2 DISPLAYED PARAMETERS 3 Voltage, Charging Current, Discharging Current, Discharging Current, Discharging Student, Discharging Current, Power, Voltage, Current, Prequency, Import Pc 4 Load Parameters 4 Voltage, Current, Prequency, Import Pc 5 Data Logging 5 Data Logging 7 Supply Pceneration, Fraults at System Level 7 System Level 8 Power On, PV Available, PV Charging Inverter On	on/Li-Ph (User Suitable) AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Charging/Discharging AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Charging/Discharging Ower, Import Cumulative, Today Generation Power, Cumulative, Power Factor Import Energy, Load Energy. Ind Warnings Index Grant Mode (Fault, HYBRID/OFF GRID Mode) Settings Input Evided	