MADE IN INDIA



SUN PRO SOLAR HYBRID PCU

MPPT 3.5KVA/3KW - 10KVA/10KW







3.5KVA - 3KW/24V

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 70 Amp
- ► Lcd Display (16 X 2)
- 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



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

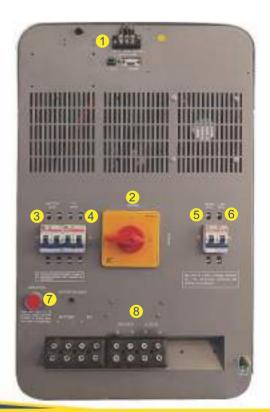
Features

- ▶ 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



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



info@invertekenergy.com



TECHNICAL SPECIFICATION

	IECHNIC				
	INVERTER RATING (KVA)	3.5KVA	5KVA	10KVA	
Α.	SOLAR CHARGE CONTROLLER (SCC)				
1	Charger Type & Topology		Buck Type MPPT		
2	PV Total Nominal Capacity (KVA)	ЗКW	5KW	10KW	
3	No. of MPPT Channels	1	1	1	
4	Per Channel PV Capacity (w) (Nominal Peak)	3.5KW/3.2KW	5KW/5.5KW	10KW/11KW	
5	Max. Open Circuit PV Volts (Voc)	240	240	400	
6	MPPT Voltage Range (Volts)	70-240	96-300	140-400	
7	PV Minimum Voltage (Volts)	24	48	120	
8	Max. I/P Amps Per Channel (Amps)	45	75	60	
9	Max. Battery Amps during PV Charging (Amps)	70	100		
9 10				80	
10	Battery type supported	150	RLA / LMLA / Li-Ion/Li-Ph (User Settab 150	150	
	Min. Battery AH (Suggested)	150	130	150	
	olar Inverter				
1	No. of Phase/Connection Type		1-Phased /2 wire		
2	Nominal battery voltage (Volts)	24	48	96	
3	Battery Ripple	5% for \	VRLA & LMLA/1% for Li-Lon/Li-Ph (User So	ettable)	
4	Nominal Output Voltage/Frequency (Votls/Hz)		230/50		
5	Nominal KVA Capacity (KVA)		5KVA	10KVA	
6	Output Amps	10.43	17.39	34.78	
7	Voltage Regulations(In Standalore Mode)	10.43	17.39	34.78	
8	Freq. Regulation (in Standalore Mode)		±2%		
9	THD	±0.5Hz			
10	Load Power Factor	<3%			
11	Effiancy(%) Peak/ 100% Load /25% Load	0.8 Lag to Unity			
12	Over Loads:	110-125% - 30 Sec			
13	Max Allowed Phase Imbalance(%)	N/A			
14	Auto Bypass Feature	Provided			
			Flovided		
	GRID CHARGER				
1	Grid Voltage Range (Voltage Sync. Range)		160V-280V (Phase to Nutral)		
2	Grid Frequancy Range (Voltage Sync. Range)		50Hz ±5%		
3	Max Grid Import Power (KVA)	3.5KVA	5KVA	10KVA	
4	Max Battery Amps During Grid Charging (Amps)	40	68	54	
5	Peak Charging Efficiency (%)		>87		
INV	'ERTER (KW)	3	4	8	
1	PV Side	Reverse Polarity, Surg Protection			
2	Battery Side	Reverse Polarity, Over/Under Voltage, Current Limit			
3	Grid Side	Over/Under Voltage, Over/Under Frequency, Anti-Islanding, Surg Protection			
4	Load Side	Overloads, Short Circuit			
5	System Protection	Over Tempe	erature Trip, Breakers at all Inputs, Er	nergency stop	
D. U	ISER INTERFACE				
1	DISPLAY INTERFACE				
2			LCD NUMERICAL DISPLAY		
				nle)	
	DISPLAYED PARAMETERS		/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat	· · · · · · · · · · · · · · · · · · ·	
1	Battery Parameters	Voltage, Charging Currer	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat nt, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging	e AH-in, Cumulative AH-out,	
2	Battery Parameters PV Parameters	Voltage, Charging Currer Voltage	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat n, Discharging Current, Al-in Al-out, Cumulativ Charging State-Charging/Discharging r, Current , Power, Cumulative, Today G	e AH-in, Cumulative AH-out, Generation	
2 3	Battery Parameters PV Parameters Grid Parameters	Voltage, Charging Currer Voltage Voltage, Current, Fre	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat n, Discharging Current, Al-in Al-out, Cumulativ Charging State-Charging/Discharging , Current , Power, Cumulative, Today G equency, Import Power, Import Cumula	e AH-in, Cumulative AH-out, Seneration tive, Today Generation	
2 3 4	Battery Parameters PV Parameters Grid Parameters Load Parameters	Voltage, Charging Currer Voltage Voltage, Current, Fr Voltage, Cu	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat ht, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging , Current , Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative,	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor	
2 3 4 5	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging	Voltage, Charging Currer Voltage Voltage, Current, Fr Voltage, Cu	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat tt, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging ,Current, Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor	
2 3 4 5	Battery Parameters PV Parameters Grid Parameters Load Parameters	Voltage, Charging Currer Voltage Voltage, Current, Fr Voltage, Cu	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat ht, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging , Current , Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative,	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor	
2 3 4 5	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging	Voltage, Charging Currer Voltage Voltage, Current, Fr Voltage, Cu	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat tt, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging ,Current, Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor	
2 3 4 5 6 3	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level	Voltage, Charging Current Voltage Voltage, Current, Frr Voltage, Cu 90 Da	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat tt, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging ,Current, Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy.	
2 3 4 5 6	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION	Voltage, Charging Current Voltage Voltage, Current, Frr Voltage, Cu 90 Da	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat tr, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging , Current , Power, Cumulative, Today G equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac Faults and Wamings	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy.	
2 3 4 5 6 3 1 2	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication:	Voltage, Charging Current Voltage Voltage, Current, Frr Voltage, Cu 90 Da	/RLA / LMLA/ Li-Ion/Li-Ph (User Suitat tr, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging , Current, Power, Cumulative, Today G equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac Faults and Wamings V Charging Inverter On, Grid Import Mode, Fa	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy.	
2 3 4 5 6 3 1 2 3	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes	Voltage, Charging Current Voltage Voltage, Current, Frr Voltage, Cu 90 Da	VRLA / LMLA/ Li-Ion/Li-Ph (User Suitat it, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging c, Current, Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac Faults and Wamings V Charging Inverter On, Grid Import Mode , Fa Keypad for Settings Input	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy.	
2 3 4 5 6 3 1 2 3 4	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button	Voltage, Charging Current Voltage Voltage, Current, Fr Voltage, Cu 90 Da 90 Da	VRLA / LMLA/ Li-Ion/Li-Ph (User Suitat at, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging c, Current, Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac Faults and Wamings V Charging Inverter On, Grid Import Mode , Fa Keypad for Settings Input Provided	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy. I Energy.	
2 3 4 5 6 3 1 2 3 4 5	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS	Voltage, Charging Current Voltage Voltage, Current, Fr Voltage, Cu 90 Da Power On, PV Available, P ¹	VRLA / LMLA/ Li-Ion/Li-Ph (User Suitat tt, Discharging Current, AH-in AH-out, Cumulativ Charging State-Charging/Discharging r, Current, Power, Cumulative, Today C equency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, ys PV Generation, Import Energy, Loac Faults and Wamings V Charging Inverter On, Grid Import Mode , Fa Keypad for Settings Input Provided Provided	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy. ult, HYBRID/OFF GRID Mode	
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2 3 4 5 6 3 1 2 3 4 5 4 5 4 1 2 3	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling, Method	Voltage, Charging Current Voltage Voltage, Current, Fr Voltage, Cu 90 Da Power On, PV Available, P ¹	 ARLA / LMLA/ Li-Ion/Li-Ph (User Suitat	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy. ult, HYBRID/OFF GRID Mode	
2 3 4 5 6 3 1 2 3 4 5 4 1 2 3 4 2 3 4	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature	Voltage, Charging Current Voltage Voltage, Current, Fr Voltage, Cu 90 Da Power On, PV Available, P ¹	 ARLA / LMLA/ Li-Ion/Li-Ph (User Suitat	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy. ult, HYBRID/OFF GRID Mode	
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2 3 4 5 6 3 1 2 3 4 5 4 1 2 3 4 3 4 5 5 6	Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign) Attitude (above Sea level) Housing	Voltage, Charging Current Voltage, Charging Current, Fr Voltage, Current, Fr 90 Da 90 Da 9	RLA / LMLA/ Li-Ion/Li-Ph (User Suital it, Discharging Current, AH-in AH-out, Cumulativ c, Current, Power, Cumulative, Today C e, Quency, Import Power, Import Cumula urrent, Frequency, Power, Cumulative, requency, Import Power, Cumulative, ys PV Generation, Import Energy, Loac Faults and Wamings V Charging Inverter On, Grid Import Mode , Fa Keypad for Settings Input Provided Data Monitoring through (GPRS Option C6 61683,IEC61727,EN50530 and IEC0 IP31 Temp. Controlled Force Cooling 0-55C ambient Operation Max. 95% Non-Condensing 1000m above sea level Standing Filter	e AH-in, Cumulative AH-out, Seneration tive, Today Generation Power Factor I Energy. ult, HYBRID/OFF GRID Mode ult, HYBRID/OFF GRID Mode	
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SUN PRO