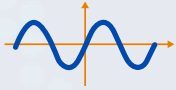




True MPPT



Pure Sinewave



Wide Voltage Range



Lithium Compatible



KEY FEATURES

- Bigger Display with more data
- Built-in Energy Meter
- Maximized Solar Usage through Intelligent modes
- 30% less panel required than other PCU
- RS-485 Communication
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections
- IGBT based design and Fast Charging Wide range MPPT Input
- 6 Stage Battery Charging
- Multiple Battery Selection
- Lithium Compatible (optional)
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid



TECHNICAL SPECIFICATION

Parameters	Units	Rating						
Model	Livsol	1KVA	2KVA/ 3KVA	4KVA/ 5KVA	5KVA/ 7.5KVA	7.5KVA/ 10KVA	10KVA	15KVA
Operating DC Voltage	VDC	24	24/48V	48V	96	120	180	240

SPV PARAMETER

SPV Open Circuit Voltage Range (Min-Max)	VDC	36-90	60-160	60-265	160-400	160-500	160-500	240-600
Max SPV Power	KW	1	2/3	4/5	5/7.5	7.5/10	10	15
Compatible SPV Panels	36/60/72/144 Cells							

MPPT BASED CHARGE CONTROLLER

Switching Element	MOSFET	MOSFET/IGBT	IGBT
Controller	DSP		
Efficiency	>95%		
Battery Charging Stages	5 (Softstart, Boost, Absorption, Float, Euqalize)		

OUTPUT

Output @ No Load	Volts	230 +/-2%						
Output Frequency	Hz	50 +/-2%						
Overload	Amps	3.5	7/10.5	14/17.5	17.5/26	26/35	35	52
	Watts	800W	1.6KW/2.4KW	3.2KW/4KW	4KW/6KW	6KW/8KW	8KW	12KW
Output Low Retry	-	1 Time						
Output Short Circuit	-	1 Time						

BATTERY

Low Cut Off	Volts	10.5 / Battery +/-2%
Low Cut Off Recovery	Volts	11.5 / Battery +/-2%
Low Buzzer	Volts	10.7 / Battery +/-2%
High Cut Off	Volts	15.5 / Battery +/-2%
High Cut Off Recovery	Volts	15.0 / Battery +/-2%
Boost Charging Volt by SPV(TUB)	Volts	14.5 / Battery +/-2%
Boost Charging Volt by Grid(TUB)	Volts	14.0 / Battery +/-2%
Charging Current by Grid	Amps	10A +/-2%
No Load Battery Current	%	0.02

GRID

No. of Phase	-	1Phase-3Wire P,N,E
Voltage Range (Inverter Mode)	Volts	100-280 +/-2%
Voltage Range (UPS Mode)	Volts	175-255 +/-2%
Frequency Range	Hz	45-55 +/-2%

DISPLAY

Parameter	Display	Alphanumeric, 16X4 LCD
	Output (Inverter)	Voltage, Current, Power and Frequency
	Input (Grid)	Voltage and Frequency
	Solar	Voltage, Current, Power and Energy (Optional)
	Battery	Voltage, Current
	Status/Faults	Inverter Status, Mains Status, Charger Status, Solar Status and Battery Status/Charging Stages

INVERTER

Switching Element	-	MOSFET	MOSFET/IGBT	IGBT				
Output Voltage	Volts	230 +/-2%						
Phase	-	1Phase-3Wire P,N,E						
Output Waveform	-	Digitally Filtered Pure Sine Wave						
Frequency	Hz	50 +/-2%						
Changeover (Mains to Inverter)	ms	<10ms						
Output Power Factor	PF	0.8						
Overload Retry	-	3 Times						
Switches	-	System ON/OFF, Mode Selection: Hybrid / PCU / Smart, INV / UPS Selection						
Indication (LED)	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults						
Alarm (Audible)	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger ON						
Protections	-	Overload, Short Circuit Protection, Over Voltage, SPV Surge and Transient Protection (MOV Varistors), Reverse Polarity of Battery, Over temperature Protection, Under Voltage and Over Voltage Protection						
Cooling	-	Forced Air Cooling (Temp Controlled)						
Communication	-	Remote Monitoring System (Over GPRS/BLE and Wifi) Or RS232						
Operating Temperature	C	0-50						
Operating Humidity	%	95						
Protection Class	-	IP20						
Dimensions (LxWxH)	mm	390x470x225	390x375x400 400x385x310	430x390x540 520x400x750	520x400x750	520x400x750	520x400x750	520x400x750
Weight	Kg	12	20/23	38/54	56/66	67/76	78	85

KEY FEATURES

Upto 30% more Efficient because of MPPT Charge Controller
 DSP/Controller based design Pure Sine Wave
 Maximum performance to Solar Power
 Extensive Electronic Protection
 User Friendly LCD, Grid Charging, IT Load, GENSET (Enable Display by LCD) & Operating Mode (Selectable)

PCU MODE PRIORITY

Solar/Battery/Grid

HYBRID MODE PRIORITY

For Load - Grid/Solar/Battery
 For Charging - Solar/Grid

HYBRID MODE PRIORITY

For Day Time - Solar/Battery/Grid
 For Night Time - Grid/Battery