

INFLUX

PWM SERIES PCU



CORE FEATURES



SMART
HYBRID
INTELLIGENT
MODES



PURE SINE WAVE



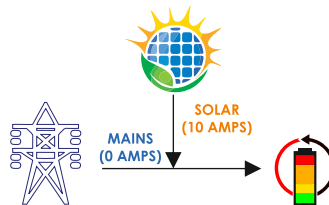
TRUE CV CC
PWM



LCD DISPLAY



ADVANCED
DSP TECHNOLOGY



AI CHARGE
SHARING

- Big Display for Data
- Maximized Solar Usage through Intelligent modes.
- Incorporated with Microchip and ST DSP Engines
- Safety and Protections

- 6 Stage Battery Charging
- Multiple Battery Selection
- Sleek & Aesthetic design
- Works as standalone Solar Inverter in case of No-Grid

INFLUX - SOLAR PWM PCU									
Technical Specifications									
Parameters	Units	Rating							
Model	INFLUX	1000VA	1500VA	2000VA	2500VA	3000VA	5000VA		
Operating DC Voltage	Volts	12	24	24	24	48	48		
SPV Parameters									
SPV Open Circuit Voltage Range (Min-Max)	VOC	16-30	16-30	32-60	32-60	64-120	64-120		
Max SPV Power	W	650	800	1200	1600	2400	3200		
Max Batt Current	Amps	50	60	50	60	50	60		
Recommended Panel Cell	Cell	36	36	60/72	60/72	60/72	60/72		
PWM Based Charge Controller									
Switching Element	MOSFET								
Controller	DSP								
Efficiency	95%								
Battery Charging Stages	5 (Softstart, Boost, Absorbtion, Float, Equalise)								
Battery									
Low Cut Off	Volts	10.5/Batt +/-2%							
Low Cut Off Recovery	Volts	11.5/Batt +/-2%							
Low Buzzer	Volts	10.7/Batt +/-2%							
High Cut Off	Volts	15.5/Batt +/-2%							
High Cut Off Recovery	Volts	15.0/Batt +/-2%							
Boost Charging Volt by SPV(TUB)	Volts	14.5/Batt +/-2%							
Boost Charging Volt by Grid(TUB)	Volts	14.0/Batt +/-2%							
Charging Current by Grid	Amps	10A +/-2%							
Output									
Output@ No load	V	220 +/-2%					230 +/- 2%		
Output Frequency	Hz	50 +/- 2%							
Overload	Watts	680W	800W	1.2KW	1.6KW		2.4KW	3.2KW	
	AC Amps	3.1	3.6	5.5	7.3		10.9	13.9	
	Disharging Amps	55	67	55	67		55	67	
Output Low Retry	-	1 time							
Output Short Circuit	-	1 time							
Display									
Display	Alphanumeric	16X2 LCD					20X4 LCD		
Parameters	Inverter	Voltage, Current (Load%) 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							
Grid									
No of Phase	-	1Phase-3Wire P,N,E							
Voltage Range(Inverter)	V	100-280 +/-2%							
Voltage Range(UPS)	V	175-255 +/-2%							
Frequency Range	Hz	45-55 +/-2%							
Inverter									
Switching Element	-	MOSFET							
Output voltage	V	220 +/-2%							
Phase	-	1Phase-3Wire P,N,E							
Output Waveform	-	Digitally Filtered Pure Sine Wave							
Frequency	Hz	50							
Changeover (Mains to Inverter)	ms	<10ms							
Output Power Factor	Pf	0.8							
Overload Retry	-	3 Times							
Switches	-	System ON/OFF, Mode Selection: Hybrid / Smart, INV /UPS Selection							
Indication	-	Inverter On, Mains In Range, Battery Low/High, Charger On, Overload, Faults							
Alarm	-	Battery Low, Overload, Charger On, Inverter On, Solar Charger On							
Protection	-	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)							
Operating Temp	C	0-50							
Operating Humidity	%	95							
Protection Class	-	IP20							

Product specifications are subject to change without further notice.