



Solar MPPT Inverters

Cognivolt's VoltMaster series of Solar MPPT Inverters are cutting-edge next-generation solar inverters. It achieves high-efficiency solar power harvesting from the same capacity of solar panels as compared with other technologies. It is a state-of-the-art design, consisting of an MPPT-based solar charge controller and bi-directional inverter with a transformer on the AC side, providing uninterrupted Pure Sine Wave power which is suitable for residential, commercial, and industrial usage.

HOME UPS • MPPT Solar PCU

Features:

- Cutting edge MPPT based technology to achieve maximum performance
- DSP based battery level management
- Battery equalizer to increase battery life and backup
- User Configuable Smart Solar Management
- Optimized Battery Management to prevent battery from overcharging and to achieve longer battery life
- User selectable priority modes for Grid/Solar/Battery
- Bypass switch for manual Operation
- Compatible with Inverter and UPS load
- Provision of soft and cold start technology
- Protection Inverter Battery Low/High, Overload, Short Circuit, OverTemp, PV reverse,
 MCB Trip/Fuse Trip etc.
- ⇒ Available charging Ampere adjustable (0, 5, 10 and 15 Amp)
- Automatic temperature compensation technology





VOLT Master





			TECHNICAL SPECIF	ICATIONS				
Madal Na	D010100	D0101501			D0105001	P0107501	DO11001	
Model No.	P010100	P0101501	P0102501	P0103501	PO105001		PO11001	
ating	1000VA	1500VA	2500VA	3500VA	5000VA	7500VA	10000VA	
ominal DC		24V 48V 96V 120V						
witching Element		MOSFET IGBT Advanced Micro-controller						
Controller								
attery Charging Mode				Priority (Grid/So	iar)			
			MPPT SOLAR PAR.			_	,	
ИРРТ		45V-100V			/-180V	165V-350V	210V-420V	
or Max Current (PWM)	40A	50A	60A	50A	60A		70A	
lattery Charging by Solar				20A				
			INVERTER PARA	METERS				
utput Voltage	220V ± 10v							
utput Frq.					50Hz ±1 Hz			
lax Load (±5%)	800W Bulb Lo	oad 1200W Bulb	Load 2000W Bulb Loa	ad 10.5A	16A	26A	34A	
olation Transformer				Provided Inbu	ilt			
utput Waveform		Pure Sine Wave						
HD (Linear Load)		<3%						
HD (Non Linear Load)		<5%						
verload		>100%						
nverter Efficiency		>85%						
'l		<10ms inverter to Mains						
hangeover Time				<20ms mains to in	verter			
		GRID II	IPUT PARAMETERS (L	JPS MODE) IT LOAD				
nput Low Cut Voltage				180V ± 5V				
nput Low Recovery Voltage		190V ± 5V						
nput High Cut Voltage		260V ± 5V						
nput High Recovery Voltage				250V ± 5V		Do Di		
aparenge and a second process of the second		GRID	INPUT PARAMETERS					
nput Low Cut Voltage		90V ± 5V		_	V ± 5V	120	0V ± 5V	
nput Low Recovery Voltage		90V ± 5V >100V ± 5V		120V ± 5V 130V ± 5V		120V ± 5V 130V ± 5V		
, ,		>100V ± 5V 290V ± 5V		290V ± 5V		280V ± 5V		
nput High Cut Voltage		290V ± 5V <280V ± 5V		280V ± 5V		270V ± 5V		
nput High Recovery Voltage		<280V ± 5V			V ± 3V	271	2700 ± 30	
nput Frequency Range Battery Charging by Grid		47Hz-53Hz Disable, 5A, 10A (Default), 15A						
sattery Charging by Grid					iuit), ISA		1000	
			PHYSICAL SPECIF					
Operating Temperature			1	-10 deg. Cel. to +55				
Optimum Weight	12.750kg	17.260kg	19. 300kg	- 8	47.650kg	-	-	
Dimension LxWxH (cm)		28.3 x 30.5 x				-		
			BATTERY PARAM	METERS				
attery Low Buzzer		10.7V ± 0.2V Per Battery						
attery Low Cut		10.5V ± 0.2V Per Battery						
attery Float Voltage		13.5V ± 0.2V Per Battery						
attery Boost Voltage		14.5V ± 0.2V Per Battery						
irid Charging Voltage (Equalize)		15.5V ± 0.2V Per Battery (After 30 Days)						
rotection	Overload, Bat	Overload, Battery Low, Battery High, Output Short ckt., Battery Reverse, Over Heat @90°C+10°C, Over/Under Frequency, I/P Hi, I/P Low, SPV Hi						
Display Parameters	L	LCD Display for input voltage, Frequency, Battery-Voltage & Current, Load % Solar Voltage & Current & Temperature						
Display Alarms Protection	Outpu	Output load percentage, Grid-On/Fail/High/Low, Battery-Low Pr-alarm/Low Trip, Inverter-On/OFF, Overload Trip, Temperature						
indosure				IP20				
lumidity			Ų	Jp to 95% Rh (Non-Co	ndensing)			
Cooling		Force Air						
Voise		<55 dB, distance 1 meter						

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