

SOLAR HYBRID HOME PCU MPPT SERIES





Range Available: 850VA to 10KVA

Core Features:

- ▲ State of Art highly efficient and high switching speed MOSFET based MPPT Technology.
- ▲ Single PCB concept based design for pure sine wave, solar integration and LCD.
- ▲ Inbuilt smart Solar MPPT Charge controller up to output power (watt) rating.
- ▲ Maximum Solar Power extraction and Utilization to save electricity bill and money.
- ▲ Powerful Charging even during very low Voltage.
- Completely Noiseless Operation.
- Precise Auto Thermal management and protection.
- ▲ Fastest protection (Almost all) to make rugged and enhance product life.
- ▲ Advance and reliable software to incorporate and interface SOLAR-UPS Features.
- ▲ Intelligently Controlled Smart and PFCCharger.
- ▲ Long Backup with being a pure sine wave output.
- ▲ 5-stage Smart Charging profile (By both solar and grid) with Auto charge Equalization to
- enhance Battery life.
- ▲ User Selectable switches to select choice of operation, Hybrid, smart and Normal.
- ▲ Pure sine wave Output at full load.
- ▲ Can run without solar as Normal DSP Sine wave inverter.
- Very Low maintenance and easy installation.
- ▲ All Parts and Components are genuine make.
- ▲ Dual display LCD & LED.

(First time with SYNCHRONOUS Buck Technology in inverter industries)

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			echnical						
Contour Detion	AIZVA		lar Hybrid I			FIZVA	FIZMA IZ FIZMA	7 51/1/4 (401/1/4	401/1/4
System Rating	1KVA	1KVA	2KVA	3KVA	4KVA	5KVA		7.5KVA/10KVA	10KVA
Battery voltage	12V	24V	24V	48V	48V	48V	96V	120V	180V
Solar Charger	4000144	400014/	000014/	0000144	4000144	E000141	E000141/7E00141	750014/401/14	401014
Max Solar panel wattage	1000W	1000W	2000W	3000W	4000W	5000W	5000W/7500W	7500W/10KW	10KW
PV Open circuit voltage Range	16-48V	36-96V	36-96V	64-192V	64-192V	64-192V	132-384V	180-450V	270-450V
Max Solar Current	Upto 50Amp	Upto 50Amp	Upto 50Amp	Upto 50Amp	Upto 50Amp	Upto 50Amp	Upto 50Amp	Upto 50Amp	Upto 50Amp
Charger Topology					PT based smart	charging			
				erter					
Rated Input voltage			ı		e Range: 10				
. 0	UPS Mode Range: 170V ~ 260V								
Rated Output Voltage on mains	Same as Input								
Number of Phase	1 Phase in - 1 Phase Out								
Load Power Factor					0.8PF				
			Output	Parameter					
Rated Output Voltage on UPS Mode				2	30V ± 10V				
Output Frequency on UPS Mode	50Hz ± 0.1Hz								
Output Waveform on UPS Mode	Pure Sine Wave								
Overload				А	bove 110%				
Short Circuit				>300%	Load (Few n	nsec.)			
			Voltage Li	mit UPS Mode)				
Mains Low Cut				1	70V ± 10V				
Mains Low Cut Recovery				1	80V ± 10V				
Mains High Cut				2	60V ± 10V				
Mains High Cut Recovery				2	50V ± 10V				
			Voltage Lim	nit Normal Mo	de				
Mains Low Cut				1	00V ± 10V				
Mains Low Cut Recovery				1	10V ± 10V				
Mains High Cut				2	80V ± 10V				
High Cut Recovery				2	70V ± 10V				
			Prote	ections					
	Short Circuit, Ba	ttery Overvoltage, B	attery Lowyoltage	Battery Deep D	ischarge. Over T	emperature (Au	o Recovery)		
		,		Indication			,,		
		Overload I	ow Battery, Over		ttery Over voltan	Α			
		Overload, E		Display	ttory Over vertag	0.			
16 X 2 LCD			LOD	Display					
20 X 2 LCD		Mains Voltage, 0	Output Voltage,	Battery Charg	ing, Battery Ch	narged, Solar <mark>'</mark>	√oltage, Solar C	Current and all F	aults
20 X 2 LOD			I ED In	dications					
		Mains On. 0	Charging On,		tterv Low. O	verload			
				Charging	,,, _				
Maina Diagonnost Valtago TUD, Mada	14.41/ + 0.21/	20.01/1.0.41/			F7 (V + 0 (V	F7 CV + 0 CV	115 01/ + 11/	144\/; 1\/	246\/ + 2\/
Mains Disconnect Voltage TUB. Mode	14.4V ± 0.2V	28.8V ± 0.4V	28.8V ± 0.4V	57.6V ± 0.6V	57.6V ± 0.6V	57.6V ± 0.6V	115.2V ± 1V		216V ± 2V
Mains Reconnect Voltage TUB. Mode	11.8V ± 0.2V	23.6V ± 0.4V	23.6V ± 0.4V	47.2V ± 0.6V	47.2V ± 0.6V	47.2V ± 0.6V	94.4V ± 1V	118V ± 1V	
Mains Disconnect Voltage STD Mode	14.0V ± 0.2V	28.0V ± 0.4V	28.0V ± 0.4V	56.0V ± 0.6V	56.0V ± 0.6V	56.0V ± 0.6V	112.0V ± 1V		
Mains Reconnect Voltage STD. Mode	11.8V ± 0.2V	23.6V ± 0.4V	23.6V ± 0.4V	47.2V ± 0.6V	47.2V ± 0.6V	47.2V ± 0.6V	94.4V ± 1V	118V ± 1V	
Battery Boost Voltage High Mode	14.4V ± 0.2V	28.4V ± 0.4V	28.4V ± 0.4V	57.6V ± 0.6V	57.6V ± 0.6V	57.6V ± 0.6V	115.2V ± 1V		216V ± 2V
Battery Float Voltage High Mode	13.8V ± 0.2V	27.6V ± 0.4V	27.6V ± 0.4V	55.2V ± 0.6V	55.2V ± 0.6V	55.2V ± 0.6V	110.4V ± 1V		207V ± 2V
Battery Boost Voltage STD, Mode	14.0V ± 0.2V	28.0V ± 0.4V	28.0V ± 0.4V	56.0V ± 0.6V	56.0V ± 0.6V	56.0V ± 0.6V	112.0V ± 1V		210V ± 2V
Battery Float Voltage STD, Mode	13.4V ± 0.2V	26.8V ± 0.4V	26.8V ± 0.4V	53.6V ± 0.6V	53.6V ± 0.6V	53.6V ± 0.6V	107.2V ± 1V		
Charging Current Recommended Pattery Canacity	15A ± 2A	15A ± 2A	15A ± 2A	15A ± 2A	15A ± 2A	15A ± 2A	15A ± 2A	15A ± 2A	15A ± 2A
Recommended Battery Capacity	100Ah - 200Ah	100Ah - 200Ah	100Ah - 200Ah	100Ah - 200Ah	100Ah - 200Ah	100Ah - 200Ah		100Ah - 200Ah	
Number of Batteries	1	2	2	4	4	4	8	10	15
Charger					ntrolled Boo	st technolog	у		
				nology					
		Digital Signal P			ate-of-the-art	technology.			
			Envir	ronment					
Storage Temperature					0-60°C				
Operating Temperature	0-50°C								
Humidity				90% N	lon-Condens	sina			