



Solar PCU - Off Grid
Yugama Intel 3050



Vijender Singh

VIJENDER SINGH
(INTERNATIONAL BOXER)



Solar PCU - Off Grid
Yugama Intel 3650



**Specially Designed Solar Inverter for
Water Pump (1Hp) and AC (1Ton)**

Features

- Battery health saver to increase battery life & give 10 to 15% more backup.
- Load sharing and charging sharing to save more electricity.
- Save money and clean environment usage by Solar PCU.
- Run your 1 Ton AC up to 5 star easily on Yugama Intel 3650 model.
- In-Built heavy duty (50 ~ 70A) solar charge controller.
- Battery deep discharge and over charge protection.
- DSP based controlled system for best performance.
- Prioritize solar for maximum usage of solar power.
- Alphanumeric 16x2 LCD, display to read easily.
- Battery boost charger inbuilt in the system.
- Save maximum electricity in solar mode.
- Low voltage charging till 90V of mains.



1800 313 333 333



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TECHNICAL SPECIFICATIONS



Yugama Intel (Solar Home PCU)

Model Name	Yugama Intel 3050		Yugama Intel 3650		
Operating DC Voltage	24 V				
Parameters (Grid)					
Mains AC Low Cut	UPS Mode	175 VAC ± 10 VAC			
Mains AC Low Cut Recovery		185 VAC ± 10 VAC			
Mains AC High Cut		265 VAC ± 10 VAC			
Mains AC high Cut Recovery		255 VAC ± 10 VAC			
Mains AC Low Cut	WUPS Mode	90 VAC ± 10 VAC			
Mains AC Low Cut Recovery		110 VAC ± 10 VAC			
Mains AC High Cut		295 VAC ± 10 VAC			
Mains AC high Cut Recovery		285 VAC ± 10 VAC			
Input Frequency Range	40 Hz - 60 Hz				
Voltage Output In Mains Mode	Same As Input				
Frequency Output in Mains Mode	Same As Input				
Battery					
Battery Type	LA / Tubular / SMF				
Float Charging Voltage	27.4 V ± 0.4 V				
Boost Charging Voltage	Tubular & SMF LA Type	28.0 V ± 0.4 V			
Battery High Cut		29.0 V ± 0.4 V			
Charging Current 100 - 135 Ah Setting	Input Range 135-295 VAC	12 A ± 1 A			
Charging Current 150 - 220 Ah Setting		15 A ± 1 A			
Charging Current (Input Range 90 - 135 VAC)	5 A - 12 A				
Backup Mode					
Output Voltage	220 VAC + 5% - 10 % (Until Battery Low Alarm)				
Output Frequency	50 Hz ± 0.2 Hz				
Output Waveform	Pure Sine Wave				
No Load Current	≤ 4% of Rated Capacity				
Discharging Current @ Full Load	72 A ± 2 A	92 A ± 2 A			
Low Battery Warning	22 V ± 0.4 V				
Low Battery Cut	21.6 V ± 0.4 V				
Change Over Time (UPS Mode)	< 10 ms				
Change Over Time (WUPS Mode)	< 25 ms				
Crest factor	1 : 5				
Peak Efficiency	86 %				
Solar Charge Controller					
Solar Charge Controller Type / Efficiency	PWM Type / >96% Efficiency				
Max. Panel Wattage	2000 Watt	2400 Watt			
Max. PV Current	55 A	75 A			
Mains Charging Sharing	If PV Power Is Not Sufficient Enough To Charge The Battery, System Will Start Sharing Battery Charging From PV And Grid.				
Option for Solar Mode and Normal Mode	Yes, Provided, User can Select Solar Mode or Normal Mode. Hence User can Select to Save Maximum Power or Smart Power Saving Mode. Solar Mode :: System will Run the 100% Load on Solar Whole Days (9 Am to 4 Pm) and Charge the Battery from Solar. Normal Mode :: System will Run the 100% Load on Solar During Peak Hours (10 Am to 3 Pm) and Charge the Battery from Solar.				
100 % Priority & Solar Utilization	System is Utilizing 100% Solar Power Available				
Display and Alarms					
LCD Status Display	Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging current, Back-up Mode, UPS On, UPS Off, Battery Voltage, Load %, Output V Mains Low Cut, Mains High Cut, Mains not Available, Mains frequency Cut				
LCD Fault / Protection Status Display	Mains Fuse Blown / MCB Trip, Short Circuit, over Load, Battery Low, High Temperature, Backfeed				
Buzzer	Audible Beep for Over Load, Short Circuit, Backfeed, Low Battery, Over Temp, Mains Fuse Blown / MCB Trip				
Environment					
Operating Temperature	0° - 40° C				
Cooling	Fan				
Storage Temperature	0° - 50° C				
Operating Relative Humidity	90 % Non - Condensing				
Dimensions (L x W x H) in mm	370 x 325 x 380				
Weight (kg)	19.5 Kg	22.5 Kg			

*Specification are subject to change without prior notice due to constant improvement in design & technology.

* Recommended 1 Ton 5 Star Inverter AC with Yugama Intel 3650



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Manufactured & Marketed By :- Easy Solar Solutions Pvt. Ltd.
27, IPS Industrial Estate, Delhi - Meerut Road, Morta, Ghaziabad, U.P. - 201003, India.