

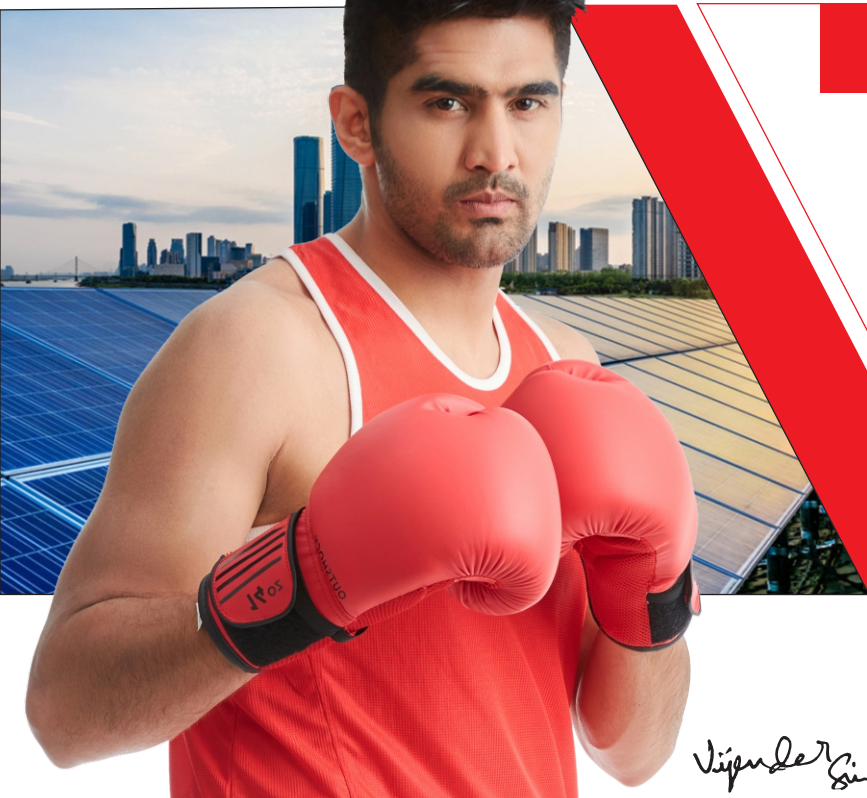


# EASY | SOLAR®

उज्जवल  
भारत का  
सोलर

Solar PCU - Off Grid

Yugama Intel 3050



*Vijender Singh*  
VIJENDER SINGH  
(INTERNATIONAL BOXER)



Solar PCU - Off Grid



the  
Solar  
people

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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## 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<br>LA Type | 28.0 V ± 0.4 V<br>29.0 V ± 0.4 V   |                   |
| Battery High Cut                               |                          | 31.0 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<br>(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.<br>Solar Mode :: System will Run the 100% Load on Solar Whole Days (9 Am to 4 Pm) and Charge the Battery from Solar.<br>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 - Consignensing   |                   |
| 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.**

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