



TTRANQUIL

SUSTAINABLE ENERGY



FOR ALL





The idea is intended to enhance the quality of life.

Our modest start in 2015 led to a lot of time, effort, and money spent on addressing our customers' problems related to energy solutions, power electronics, & renewable energy. Today we can't imagine life without electricity. We always strive to offer a solution to our clients which can bring brightness, happiness, and smiles to their life.

The company is the first to develop the product & market, raise customer awareness, and establish global brands, as well as make sustainable energy solutions and renewable energy businesses.



VISION

"With our innovative & sustainable solutions, we aim to improve people's lives every day. Sustainable Energy for All".

By providing our clients with value-added solutions that power their lives and society, we are passionate about being the preferred manufacturer, integrator of Power Electronics and Solar power systems worldwide.



MISSION



OUR VALUES

Quality – Quality control is an important aspect of our work so that the longevity and reliability of our products and systems can be maximized. A team of industry experts designs, engineers, and manufactures our products and systems to deliver the best possible performance.

Competence – We are competent in more than one way. Our seasoned professionals, use of advanced technology, and experience in the industry enable us to deliver top-of-the-line solutions for our clients.

Customization – Customization is our specialty. We don't shy away from complex projects, working diligently to provide the perfect, engineered-to-order solution for our customers.



“Solar PCU” 900 VA – 10KVA

Tranquil Solar PCU is one of the most trusted, reliable, technically advanced and accepted Globally. The Tranquil Solar PCU is an integrated system that includes an inverter, a solar charge controller, and a grid charger. Powered by Tranquil’s PV panels, Tranquil’s Solar PCU provides power savings of 30% while accepting dual inputs. With its smart Tranquil Solar PCU, the load is automatically switched from solar to grid power, depending on the availability of solar power. Solar Power is always given the priority, only when it insufficient than switches to Grid Power. With Tranquil PCU, solar power, grid supply, and batteries are managed intelligently for convenient and seamless delivery of power to all electrical applications, reducing energy costs and carbon footprint.

-  **Big LCD Screen for all notification**
-  **Smart Solar Optimization Usage Settings**
-  **Recover Deep Discharge Battery Even Zero Volt Gravity**
-  **In built strong Solar charge Controller**



LED BULB

AIR COOLER

JUICER MIXER

LAPTOP

LED TV

REFRIGERATOR

HP MOTOR

KETTLE

FLOOD LIGHT

WASHING MACHINE

PRODUCT SPECIFICATIONS														
MODEL NAME	900VA	1100VA	1700VA	2000VA	2500VA	3500VA	5000VA	5000VA	6000VA	7500VA	10000VA			
MAINS MODE														
Mains AC Input Range (UPS mode)	175VAC - 265VAC \pm 10V													
Mains AC low cut recovery UPS mode	185VAC \pm 10VAC													
Mains AC high cut recovery UPS mode	255VAC \pm 10VAC													
Mains AC input range (WUPS mode)	90VAC - 285VAC \pm 10V													
Mains AC low cut recovery WUPS mode	110VAC \pm 10VAC													
Mains AC High cut recovery WUPS mode	285VAC \pm 10VAC													
Input Frequency Range	50Hz \pm 5%													
Battery														
DC Input Voltage	12V			24V		36V	48V		96V	72V	96V	120V		
Battery Deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharged Battery)													
Charging Current 100Ah-135Ah Setting (I/P range 135VAC to 295VAC)	6.5A \pm 1A (50-80Ah Battery)													
Charging Current 150Ah-220Ah Setting (I/P range 135VAC to 295VAC)	10A \pm 1A (100-135Ah Battery)		15A \pm 1A											
Backup Mode														
Output Voltage / Frequency	220VAC + 5%-10% (Until battery low alarm) / 50Hz \pm 0.Hz													
Output Waveform	Pure Sine Wave													
Low Battery Cut	10.4V \pm 0.2V		21.6V \pm 0.2V		32.4V \pm 0.4V	43.2V \pm 0.4V	86.4V \pm 0.4V	64.8V \pm 0.4V	86.4V \pm 0.4V	108V \pm 0.4V				
Change over time UPS/WUPS mode	< 10 msec / < 25 msec													
Protections														
Overload/short ckt./Backfeed in backup mode	Available													
Over Temperature/Reverse Battery	Available													
Phase to Phase Protection in Mains Mode	Yes Provided by Electronic													
Solar Charge Controller														
Maxi Pannel Wattage Can be Connected														
Maxi PV Current	25A					50A								
Reverse PV protection / current flow to PV	Available													
Sharing of Current When PV and Grid Both are available	If PV power is not Sufficient enough to charge the battery, System will start sharing battery charging from PV and Grid													
Option for Grid and Battery Priority	Available, Customer friendly settings													
Display and Alarms														
LCD Status Display	Mains ON, Input-Voltage/Frequency, Battery-Voltage/Charging/Charged, Charging Current, PV Voltage/ Current Backup Mode, UPS-ON/OFF, Load %, Output-Voltage/Frequency and all protections etc..													
Weight and Dimensions														
Dimensions in MM	301x297x160		270x195x125		340x230x260		350x230x310		530x360x585		550x410x650			
Weight	6.5Kg	7Kg	8.5Kg	9.3Kg	9.5Kg	15.9Kg	18.3Kg	21.4Kg	26.3Kg	41Kg	43Kg	51Kg	73Kg	78Kg

LOAD CHART*

S.No	Model	Load on Solar	Solar Panel Capacity
1	900VA/12V	4 Fan + 8 CFL + 1 TV or 2Fan + 4 CFL + 1 Refrigerator	Upto 600W
2	1100/12V	5 Fan + 10 CFL + 1 TV or 3 Fan + 6CFL + 1 Refrigerator + 1 TV	Upto 600W
3	1700VA/24V	4 Fan + 8 CFL + 1 TV or Water Pump 1 HP or 2 Fan + 4 CFL + 1 Refrigerator	Upto 1500W
4	2000VA/24V	12 Fan + 10 CFL + 1 TV or Water Pump 1 HP + 3 Fan + 6 CFL + 1 Refrigerator + 1TV	Upto 1500W
5	2500VA/24V	14 Fan + 15 CFL + 1 TV or Submerisble Pump 1 HP + 4 Fan + 5 CFL or 3 Fan + 6 CFI + 1 TV	Upto 1800W
6	3500VA/48V	10 Fan + 20 CFL + 1 TV or Submerisble Pump 1 HP + 6 Fan + 10 CFI or 5 Fan +8 CFL + 1 TV or One Petrol Pump Nosel	Upto 3000W
7	5250VA/48V	25 Fan + 25 CFL + 1 TV or Submerisble Pump 2 HP + 6 Fan + 15 CFI or 8 Fan +8 CFL + 1 AC 1 Ton + 1 TV or 2 Petrol Pump Nosel + 6 CFL	Upto 3000W
8	5250VA/96V	25 Fan + 25 CFL + 1 TV or Submerisble Pump 2 HP + 6 Fan + 15 CFI or 8 Fan + 8 CFL + 1 AC 1 Ton + 1 TV or 2 Petrol Pump Nosel + 6 CFL	Upto 6500W
9	6000VA/72V	25 Fan + 25 CFL + 1 TV or Submerisble Pump 2 HP + 6 Fan + 15 CFI or 8 Fan + 8 CFL + 1 AC 1 Ton + 1 TV or 2 Petrol Pump Nosel + 6 CFL	Upto 4500W
10	7500/96V	5 Fan + 10 CFL + 10 LED Bulb 7W + 2 Room Cooler + 3 Tv 32" + 2 Ac 1.5 Ton	Upto 6500W
11	10000/120V	35 Fan + 36 CFL + 3 TV or Submerisble Pump 2 HP + 10 Fan + 25 CFL or 10 Fan + 10 CFL 2 Ac 1.5 Ton + 1 Tv or 4 Petrol Pump Nosel + 10 CFL	Upto 8000W



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