



**TRANQUIL**

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.



"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.



**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.



**“Tranquil HUPS” 700 VA – 10KVA**

A pure sine wave inverter (HUPS) is the combination of two innovative technologies - eliminating the need for separate Power Backup systems for sophisticated home appliances, computers, LED televisions, music systems, and all other electronic devices. Home UPS systems are equipped with Advanced DSP Technology to monitor and control hardware modules in real-time. Power loss can be detected automatically through this intelligent. HomeUPS system and the system switches to backup mode to provide pure sine wave output that is 100% clean, and regulated, totally stable, distortion-free, and is totally safe to use with sensitive appliances. A built-in AC MCB provides input mains protection, and the system charges the battery in three stages: boost, absorption, and float for optimum charging. Special features are Zero Switch Over Time in UPS mode, ABS – Automatic Bypass System, 20KHz frequency design ensures noiseless operation, A high crest factor of 3:1 enables to run loads that require a high starting current, and compliance Global standards.

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**“3 Stages Charging Boost, Absorption, Float for Optimum Charging”.**
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**Smart Charging Even During Low Voltage 90v\***
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**Complete Protection From Back Feed & Phase To Phase Supply**
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**Compatible With all Type Battery**



PRODUCT SPECIFICATIONS																				
MODEL NAME	700VA	900VA	1100VA	1500VA	1700VA	2000VA	2000VA	2500VA	3500VA	5000VA	5000VA	6000VA	7500VA	10000VA						
<b>MAINS MODE</b>																				
Mains AC low-high cut UPS mode	175VAC - 265VAC ± 10V																			
Mains AC low-high recovery cut UPS mode	185VAC - 255VAC ± 10VAC																			
Mains AC low-high cut WUPS mode	90VAC - 295VAC ± 10VAC																			
Mains AC low-high recovery cut WUPS mode	110VAC - 285VAC ± 10VAC																			
Input Frequency Range	50Hz +/-5%																			
Battery	Yes ( Independent Charger to Recover Deep Discharged 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 ± 1A (50-80Ah Battery)		12A/15A ± 2A																	
Charging Current 150Ah-220Ah Setting (I/P range 135VAC to 295VAC)	10A ± 1A (100-135Ah Battery)		15A/20A ± 2A																	
<b>Backup Mode</b>																				
Output voltage / Frequency	220VAC ± 5% 10% (until battery low alarm)																			
Output Frequency	50Hz ± 5% Hz																			
Output waveform	Pure Sine Wave < 5% THD																			
Low Battery Warning	10.8V±0.2V	21.6V±0.2V	32.4V±0.2V	43.2V±0.4V	86.4V±0.4V	64.8V±0.4V	86.4V±0.4V					108V±0.4V								
Low Battery Cut	10.8V±0.2V	21.6V±0.2V	32.4V±0.2V	43.2V±0.4V	86.4V±0.4V	64.8V±0.4V	86.4V±0.4V					108V±0.4V								
Change over time UPS mode	< 10 msec								< 4 msec											
Change over time WUPS mode	< 25 msec																			
<b>Protections</b>																				
Overload in backup mode	Yes provided, system will give indication at 101% load																			
Short Circuit in Backup Mode	System will shutdown after 3 retries in case of outputsitort cir																			
Short Circuit in Mains Mode	Mains Fuse will blown								Mains MCB will trip											
Back feed	System will shutdown in case of back feed and there is no retry																			
Over temperature	Yes provided, if heat sink temperature goes above 100°C System will shut down																			
Reverse Battery	DC fuse will blown								Battery MCB will trip											
<b>Display and Alarms</b>																				
LED Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON,UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut																			
Buzzer	Audible beep for Overload, Short Circuit, Back feed, Low Battery, Over Temperature, Mains Fuse blown / MCB Trip																			
<b>Weight and Dimensions</b>																				
Dimensions in mm	301x297x160			270x190x125				340x230x260				350x230x310			530x360x585			550x410x650		
Weight	6.5kg	8kg	8.5kg	9.35kg	9.5kg	13.5kg	15.9kg	18.5kg	21.4kg	23.5kg	25.2kg	26.3kg	43kg	51kg	73kg	78kg				

### LOAD CHART\*

PRODUCTS	700VA		900VA		1100VA		1500VA		1700VA		2KVA		2.5KVA		3.5KVA		5KVA		6KVA		7.5KVA		10KVA	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
21"TV/29"TV*	-	1	-	1	-	1	2	1	2	1	2	1	1	1	2	-	4	2	2	1	4	3	2	2
Fan	2	3	4	4	3	5	3	3	5	3	8	10	5	4	4	4	15	10	10	6	15	5	20	4
Tube Light	2	2	3	4	4	3	5	3	5	3	8	10	4	6	4	8	15	10	10	5	15	10	20	15
11W CFL	3	2	3	6	5	5	6	4	6	4	10	16	10	8	4	4	15	20	20	10	15	10	20	15
0.8 Ton AC	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Computer	1	-	1	-	1	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
Air Cooler	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	1	-	2	2	4	4	
Refrigerator 360ltr	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-
1 Ton AC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	2	-	-	-	-	-
1.5 Ton AC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2



# TRANQUIL



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