



# Energy Systems



Solar Energy For Your Home



# ENERGY SYSTEM HIGH QUALITY MONO CRYSTALLINE SOLAR PANEL



High transmissivity glass of 91.5%+ to enhance high efficiency.

High efficiency cells to deliver superior electrical performance

High quality fast-cure EVA to ensure high performance and guaranteed life with superior UV and thermal properties.

ISOVOLTAIC© back sheet to provide good weather resistance for rugged environments, high dielectric performance, superior partial discharge and electrical insulation.

Sturdy anodized aluminum frame design with hollow profile and water drainage holes, corner-key locking and edge sealing ensures superior torsional resistance and longevity in adverse / coastal climatic conditions.

IP 65 rated LUMBERG© junction box prefitted with cables and plug and play connectors for quick and safe installation, which is IEC and UL approved.

"made in centrotherm photovoltaics" stands for the use of state of the art centrotherm technology and state of the art production environment in the manufacture of solar cells and modules

## ADVANTAGES

- ❖ Module classification range +5 Wp
- ❖ More than 17% cell efficiency
- ❖ 10 years of product guarantee
- ❖ 25 years of performance guarantee
- ❖ Best components German quality standards
- ❖ Certified according to IEC/EN 61215 (Ed. 2)
- ❖ Certified according to IEC/EN 61701 Salt Mist Test
- ❖ Certified according to IEC/EN 61730, protection class II

# ENERGY SYSTEM HYBRID MULTI SOLAR INVERTER 900 to 6000VA

## SPECIFICATION

- ❖ Battery Input voltage : 12V DC – 48V DC
- ❖ Mains Input voltage : 230V AC, 50Hz.
- ❖ Mains input range : 0V – 440V, 45Hz-65Hz
- ❖ AC Output (Inverter) : 230V +/- 3%, 50Hz
- ❖ Inverter topology : Bridge type center aligned switching. MOSFET based.
- ❖ Inverter output power : 300VA - 3000VA
- ❖ Battery charging : Constant current SMPS charging with full charge cutoff
- ❖ Charging current : Settable upto 15A
- ❖ Charger working range : 120V – 270V AC Mains input



## HIGHLIGHTS

1. Full bridge configuration based on power MOSFETS
2. DSP based intelligent control
3. LCD based display for user-friendly display of parameters and status
4. Protection against 440V mains input
5. Protection against reverse polarity
6. Dynamic short circuit protection with fold-back current limiting.
7. Protections against all possible errors like battery low, over load, heavy load, short circuit etc.
8. Early warning for battery low and overload conditions. System continue normally if the error is corrected.
9. Cutoff and auto restart with permanent cut after 5 consecutive cutoff.
10. SMPS type constant current charger with full charge cutoff.
11. Pure sinewave output resulting in silent operation of motor and fans. Safe to all kind of loads.
12. Ideal for Mixed load application
13. Indigenous design with proven technology.
14. Auto detect of LCD and LED. Can change between LED / LCD while the system is powered.
15. Protection against accidental output feedback disconnection.

**Available:**

**900VA, 1200, 1500, 2000, 3000, 3500, 4000, 5000**

# ENERGY SYSTEM SOLAR BATTERIES

## Application :

Best suited for Domestic & Industrial UPS (900 VA - 6000 Kva) & Inverter, Communication Equipments & Other Stationary Application.

### Technical Specifications

#### TUBULAR BATTERIES IN HR CONTAINERS

Model	Capacity (AH)	Overall Sizes +/- 5mm			Weight Dry (kgs)	Weight (app.)
		Length	Width	Height		
TR 20	20	315	170	230	10.5	18.0
TR 40	40	355	170	240	16.5	25.0
TR 60	60	420	175	210	27.5	35.5
TR 80	80	510	220	245	32.5	49.0
TR 110	110	510	220	255	37.0	55.0
TR 132	132	510	220	255	48.5	65.0
TR 150	150	475	200	400	51.0	72.5
TR 200	200	480	200	400	69.0	80.0

#### TUBULAR BATTERIES HEAT SEALED CONTAINERS

Model	Capacity (AH)	Overall Sizes +/- 5mm			Weight Dry (kgs)	Weight (app.)
		Length	Width	Height		
TP 20	20 AH	260	170	215	10.5	17.5
TP 40	40 AH	305	170	220	16.5	24.5
TP 60	60 AH	510	180	240	27.5	35.0
TP 80	80 AH	505	220	250	32.5	48.5
TP 110	110 AH	515	275	225	37.0	54.5
TP 132	132 AH	515	275	270	48.5	64.5
TP 150	150 AH	475	195	395	51.0	72.0
TP 200	200 AH	475	195	395	69.0	77.0

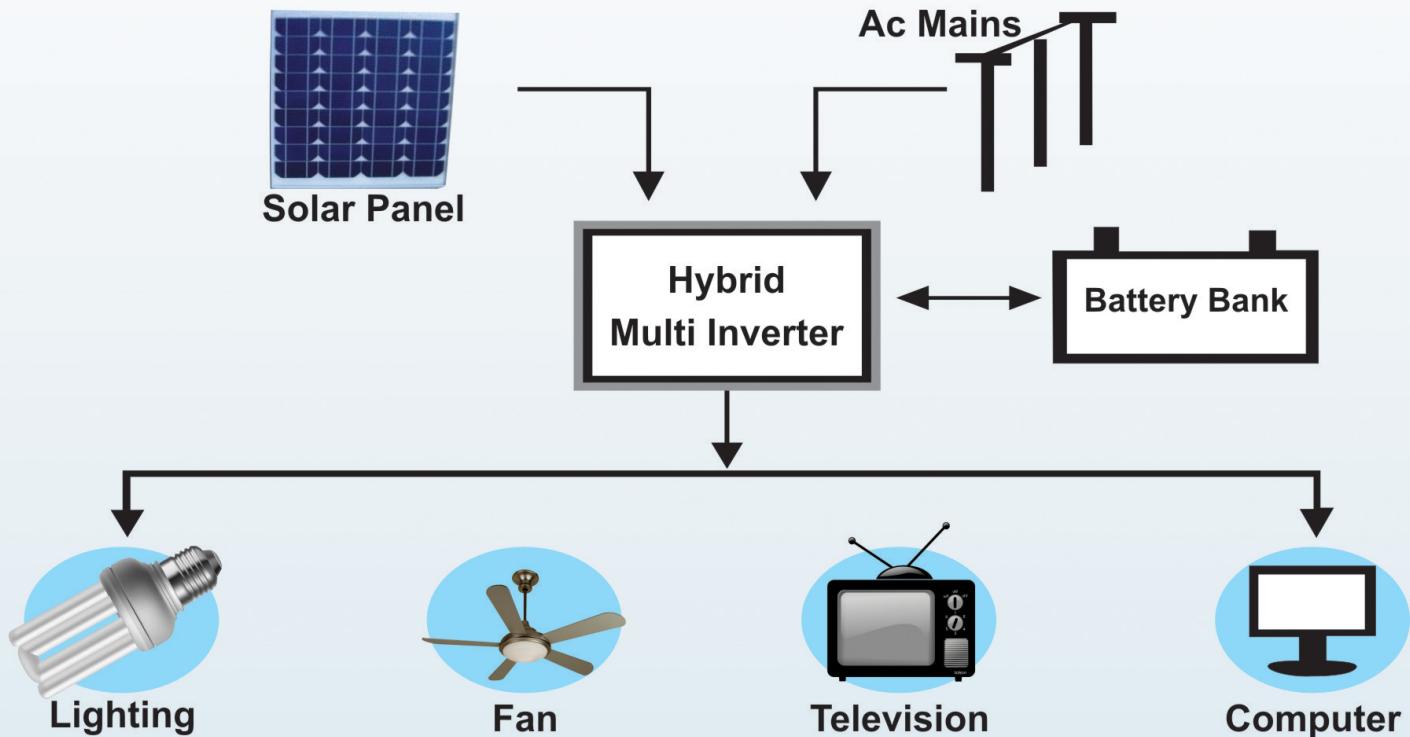




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#.44, 2nd Floor, GST Road, Guindy, Chennai - 600 032

 044-42009055  
9962639777 | 9444044079

Email : [admin@energysystemz.com](mailto:admin@energysystemz.com)

Log on to : [www.energysystemz.com](http://www.energysystemz.com)