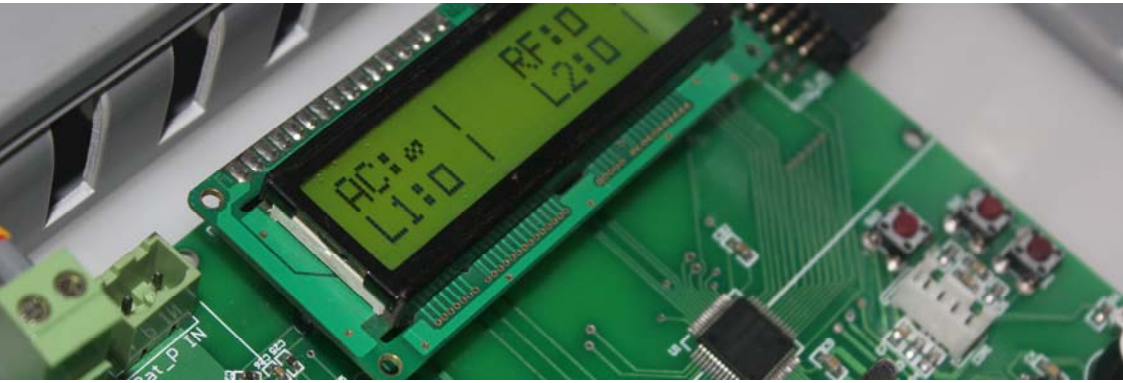


***Basil Energetics Private Ltd***  
***Chennai - INDIA***



***Smart Microgrid Solar System***  
***with***  
***Hybrid Appliances***





## Hybrid Appliances:

- **Room Air Conditioners** - 1 Ton & 1.5 Ton models

- 5200 & 3500 W cooling capacity
- Variable Speed Brushless motor compressor (Japan make)
- State of the Art speed controller

**iChill®**



- **Home Refrigerator** - 330 Litre, 2 Door model

- Frost Free model
- Variable Speed Brushless motor compressor (Japan make)
- State of the Art speed controller

**iFreez®**



- **Ceiling Fan** - 1200 mm (48") sweep model

- 200 M<sup>3</sup>/Min air delivery \*
- 25 W input power \*
- Speed control with remote

**iBreez®**



- **LED Tube Lights** - 2' & 4' models

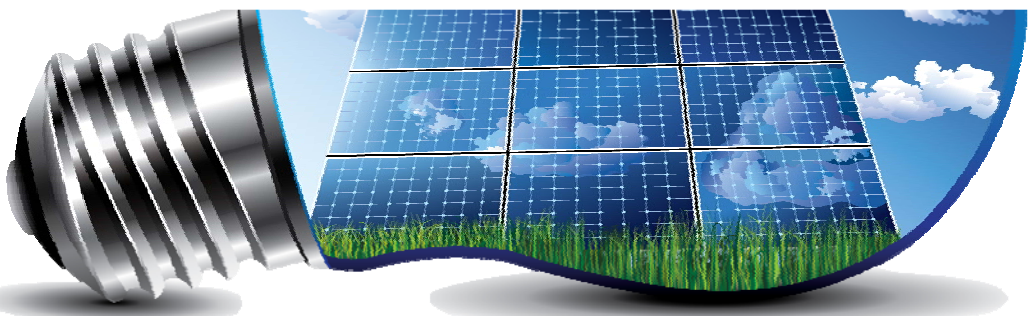
- 8/16 Watt consumption
- 750/1500 Lumens light output

**iJyoti®**



- **LED Bulbs**

- B22 mounting
- 3/6 Watt consumption
- 225/450 Lumens light output





# Specification & Models <sup>\*</sup>

Model	RTS07	RTS16	RTS21	RTS32
Air Conditioner	-	One 1 Ton	One 1.5 Ton	One 1 Ton One 1.5 Ton
Refrigerator	1	1	1	1
Ceiling Fan	3	4	5	5
LED Tube Light 4'	1	2	2	4
LED Bulb 3/6W	8	8	10	10

## Operation:

- *All the appliances can operate either from solar panel (DC) or from AC Mains.*
- *The Central Load Controller monitors the power availability from the solar panels and schedules the load in such a way that maximum power from panels is utilised at all times.*
- *During night, the appliances will run from AC Mains.*
- *Back up, if needed, can be provided by batteries at extra cost.*
- *All the appliances are super efficient (SEEP) as envisaged by BEE.*
- *When operating from AC mains:*
  - *Energy saving of at least 50% is obtained. <sup>+</sup>*
  - *Power factor at all loads is near unity*
  - *Wide fluctuations in input supply voltage is permitted.*
    - *150 ~ 270 V for air conditioners*
    - *100 ~ 270 V for Fans, Lights & Refrigerator*

**iGrid<sup>®</sup>**



(\* Other requirements can be offered on customised basis)





## ***Advantages of the new system:***

- ***Power rating of the solar panel is drastically reduced:***
  - *The Hybrid appliances consume less than 50% of power compared to existing models <sup>+</sup>*
  - *Due to 'Soft-Start' the inrush current during starting is totally eliminated*
  - *Due to near unity power factor, the current drain from source is minimised*
- ***The roof top area is also reduced by about 65 ~ 70% <sup>+</sup>***
- ***Back up battery size, if needed is also reduced by around 66% <sup>+</sup>***
- ***While running from AC Mains, the power bill is reduced by half. <sup>+</sup>***

( <sup>+</sup> Conditions Apply, Under Test Conditions)

( Pictures are for illustration purpose only the actual product may vary from the one shown)

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