

## DC Appliances



LED Light Bulb



Mixer



DC Powered 21" / 24" TV



DC Desert Cooler



Ceiling Fan



Computer



Cell Phone Charger/  
Socket



Tubelight



Induction Stove



Water Pump



### Technical Benefits:

1. By using DC 48V Solution, we can avoid power conversions.
2. No carbon foot prints, 100% Green energy.
3. 48V DC falls under Safe Extra Low Voltage (SELV); thus no shock, reducing risk of electric shock and no fire accidents.
4. Controlling/Monitoring of loads with IR Remote controls.
5. Monitoring power savings & readings in Energy meter.
6. High Efficiency.

### Commercial Benefits:

1. Energy savings with energy efficient DC appliances.
2. Reduction in monthly electricity bill upto 50%.
3. Low cost & more effective compared to equivalent Solar AC solutions.

## About Cygni

At Cygni we believe in a better way to power homes and businesses at a lower cost while contributing to a cleaner planet. We also believe solar power can actually cost less

than what we pay now resulting in significant savings !

Cygni's inverterless Solar-DC solution offers an economical and affordable solution for off-grid/ near off-grid homes (homes with large power-cuts), and is also useful for grid connected homes in saving power bills as well as providing back-up power. This is achieved by Solar-DC inverterless technology, developed in collaboration with IIT Madras.

Global Vipassana  
-Pagoda



Inverterless - Jammu  
and Kashmir



IIT Madras, Chennai

SBI-Bhikhanpur,UP



**Cygni Energy Private Limited**

Second Floor, Lansum House, Plot no. 283, Rd. no. 78  
Jubilee Hills, Hyderabad, Telangana 500033

+91 40 2354 5001 || [info@cygni.com](mailto:info@cygni.com)  
[www.cygni.com](http://www.cygni.com)

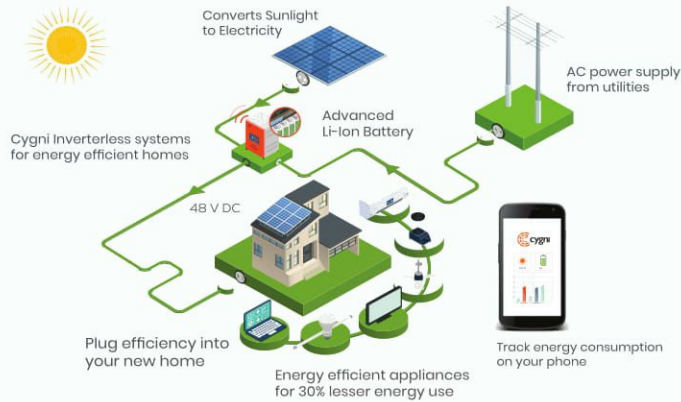


Powering a billion dreams

# LET'S GO DC & SAVE POWER



# How Cygni Solar Works?



Cygni IBIS

Presenting Cygni IBIS - the most efficient rooftop solar solution for your home. Powered by solar panels, Cygni brings power smartly to your home and helps you monitor your usage through an app. And the best part is you can save big on your electricity bills.



Cygni DASH

Presenting Cygni DASH - the most efficient solar solutions for office spaces and multi storey apartments. Powered by solar panels, Cygni DASH brings smart power for lights, bulbs, computers, television and electronic gadgets and helps monitoring your usage through a custom build app. And the best part is that we can help customer to save 50% on electricity bills.

## SOLAR DC VS. TRADITIONAL POWER

	CYJNI SOLAR DC	AC INVERTER	SOLAR AC INVERTER
<b>SELF SUFFICIENCY</b>	Completely self sufficient	Not Applicable	Lower self sufficiency compared to equivalent DC system
<b>CONVERSION LOSSES</b>	Minimal losses	Losses at multiple points	Losses at multiple points
<b>APPLIANCES</b>	30% lower energy consumption	Most energy efficient appliance consume more than DC appliances	Most energy efficient appliance consume more than DC appliances
<b>ROI</b>	Less than 3 years	No ROI	ROI lower than an equivalent DC system

## ADVANTAGES

- Compact
- Connected
- Higher Returns
- All Weather Power
- Efficient
- Green

## ADVANTAGES

- Saves Money
- Low Cost
- Safe and Reliable
- Scalable from 2.5kW and multiple times there after
- Occupies less space

## 48 V DC VS. 12/24 V DC

	48V DC	12/24 V DC
<b>COSTS</b>	Lower cable costs	Higher cable costs due to thicker wire
<b>APPLIANCES</b>	Larger appliances like TV, Mixer, cooler and laptops can be used	Limited to smaller appliances like lights and Fans
<b>STANDARDS</b>	Already accepted in telecom and automotive industry. BIS recommends 48V DC system as LVDC standard for DC homes	No applicable standards
<b>SCALABILITY</b>	Can add more appliances without replacing the wiring	Needs additional wiring to add new systems

## PRODUCT SPECIFICATIONS

	IBIS Off Grid	IBIS Lite	IBIS Standard	IBIS PRO	IBIS DUO
<b>Max Solar Capacity</b>	200Wp	200Wp	200Wp	500Wp	500Wp
<b>Battery Capacity</b>	1.25kWh	625Wh	625Wh	1.25kWh	1.25kWh
<b>Maximum Load</b>	150W	150W	150W	500W	500W
<b>Grid Connectivity</b>	No	No	Yes	Yes	Yes
<b>AC Output</b>	No	No	No	No	Yes
<b>Battery Backup</b>	> 4Hr	> 4Hr	> 4Hr	> 4Hr	> 4Hr
<b>Warranty</b>	5 Yrs.	5 Yrs.	5 Yrs.	5 Yrs.	5 Yrs.

## PRODUCT SPECIFICATIONS

	DASH 1S (2.5kW)	DASH 2S (5kW)	DASH 3S (7.5kW)	DASH 4S (10kW)
<b>Inverterless DASH Controller</b>	1	2	3	4
<b>Solar PV Model (250wp)</b>	10	20	30	40
<b>SMF Battery Bank (150AH/180AH)</b>	4	8	12	16
<b>DASH Enclosure</b>	Yes	Yes	Yes	Yes
<b>Warranty</b>	2 Yrs.	2 Yrs.	2 Yrs.	2 Yrs.

A technology developed in collaboration with IIT Madras

A technology developed in collaboration with IIT Madras