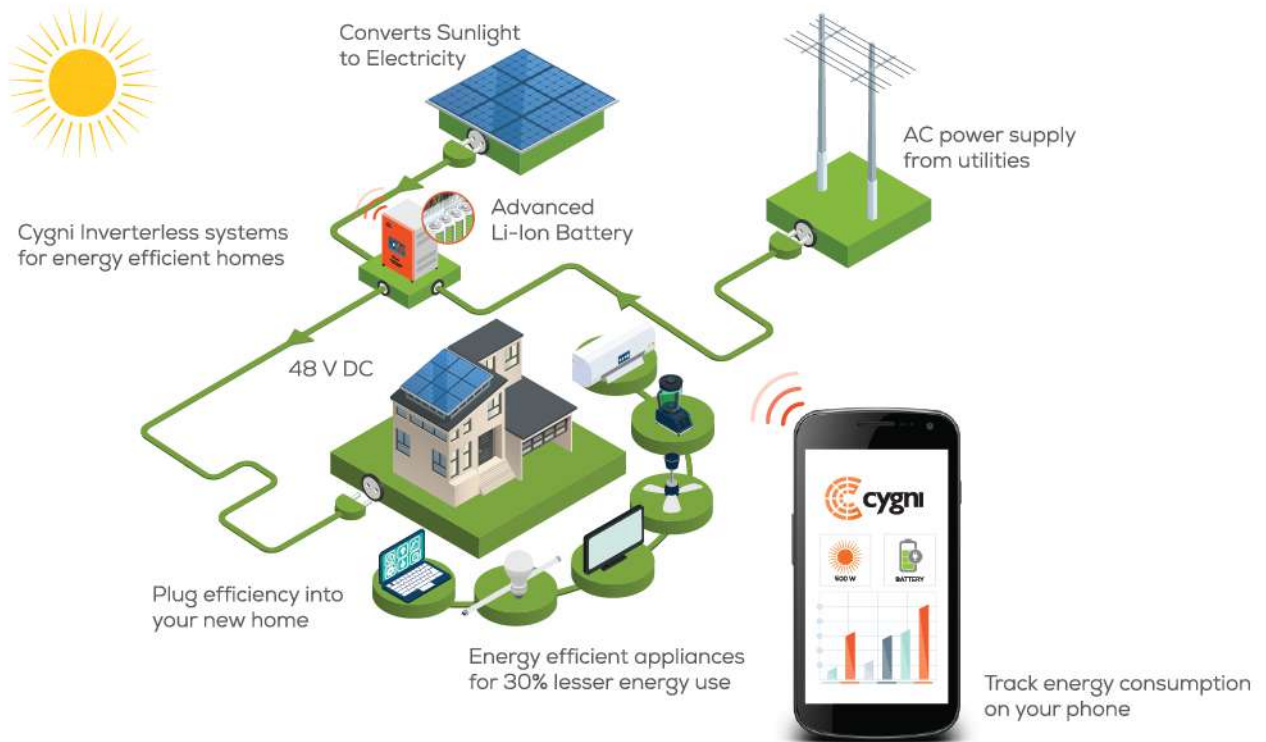


Self powered homes

HOW DOES CYGNI SOLAR WORK?



SOLAR DC VS. TRADITIONAL POWER

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

48 V DC VS. 12/24 V DC

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

IBIS LOADS	IBIS- STANDARD	IBIS- PRO
LED Bulbs (equivalent to 11W CFL)	03	15
Tube light (4', T5 fitting LED)	02	06
Ceiling Fan 30W	02	05
DC Television (24")	01	02
Mobile Chargers/ DC socket	02	05
Remote	01	01

PRODUCT SPECIFICATIONS

IBIS- STANDARD	IBIS- PRO
150 W Load	500 W Load
1x of 125Wp Solar PV module	Up to 4x of 125Wp Solar PV module
625 Wh Lithium Ion battery	1.25 kWh Lithium Ion battery
Up to 3 hr backup	Up to 4 hr backup
For 2 BHK and smaller	Up to 4 BHK + Villas

PRODUCT BENEFITS



Compact

Integrated Lithium –ion Battery ensuring smaller size and longer life. With improved aesthetics, Cygni now is part of the decor



Connected

Monitor your energy usage with mobile app and management server



Higher Returns

With payback period of less than 2 years, Ensure free electricity for life with minimal maintenance



All Weather Power

Tested to provide usable energy round the year. Protect against unforeseen blackouts



Efficient

Pair up with a range of energy efficient appliances and see instant drop in energy consumption



Green

Help keep the planet green with solar energy. Each kWh of energy substituted reduces CO₂ emissions by 1Kg



GRFG-Building
IITM Chennai



Belgavadi
Karnataka



SBI-Bhikkanpur
Uttar Pradesh

IMPACT

08	15521	38702	776
STATES	HOMES	DREAMS	VILLAGES

..... and Counting

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.



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