GREE

Smart air for smarter living

Gree Solar Hybrid Hi Wall Inverter Air Conditioner

Utilize the natural power of the sun to heat or cool your home.

Find out more at
www.greeonline.com

Why Choose a Solar Hybrid Inverter?

The new Gree Solar Hybrid Inverter technology allows you to harness the natural and free energy from the sun to help you run your Gree Hi-wall Air Conditioning unit.

You could save up to 97% on your mains power usage* with the Gree Solar Hybrid System, plus it's easy to install and use so you can get started on saving money and lowering your energy usage with no hassle.

The solar panels (sold separately) will be wired directly into the outdoor unit by your installer, this means no addition invertor is required. Once the system is set up, simply switch on and enjoy.

The system will automatically pull from the solar panels or the grid depending on the current sunshine levels, you'll enjoy uninterrupted heating or cooling as the system changes seamlessly with no input required from the user.

What is a Solar Hybrid Inverter?

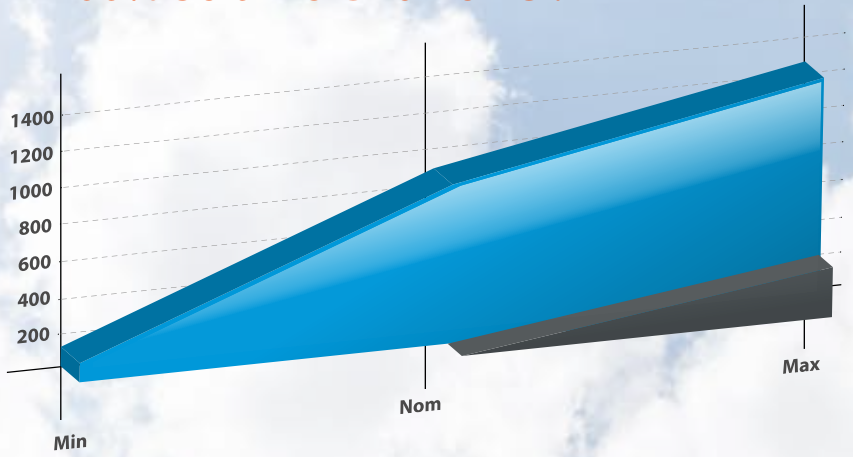
While Inverter Air Conditioners are more powerful and use less energy than a fixed speed air conditioner, Gree's new Solar Hybrid Inverter takes this to a new level of efficiency. The world's first true Solar Hybrid air conditioner allows you to convert the suns energy through Photovoltaic panels into DC power that is feed directly into the DC side of the Gree Inverter. The combination of the Solar Hybrid technology coupled with Gree's G10 inverter means you and your family can enjoy the benefits of better temperature control, lower noise levels and now increased energy efficiency.

Power Saving Technology

Using Gree's patented Power Supply Control Module (PSCM) the Hansol Solar Hybrid unit can use Solar DC generated power or mains AC generated power, or a combination of both as required. This means that no matter the weather, you will have uninterrupted comfort.

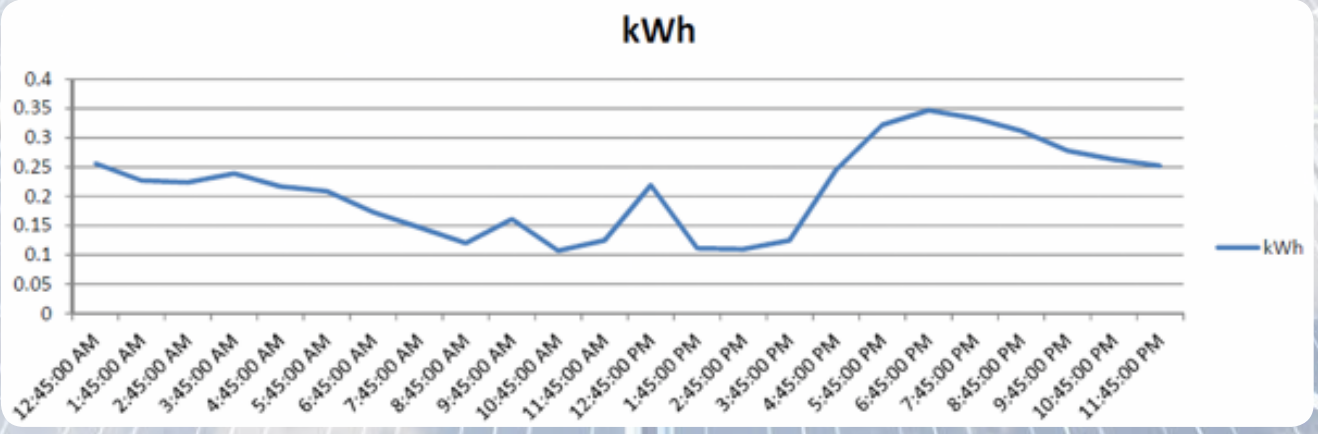
The PSCM will use as much solar energy as is available and this solar energy directly replaces the equivalent amount of AC power from the mains provider. Under optimum conditions, this can save up to 97% of your mains power usage.

Power Consumption.
100% Solar vs Grid Power.



Power Usage for 1 Week

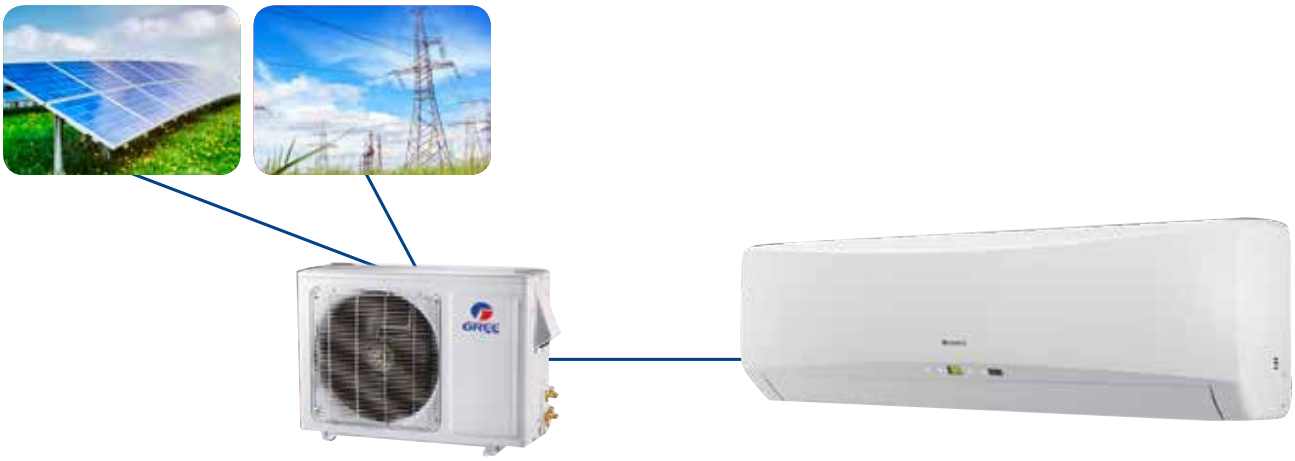
Based on continuous running for one week (10th Jan 2015 to 16th Jan 2015). Testing conducted in Brisbane, Australia. Power cost @ 25.9 cents per unit. Min temp recorded 22.1°C; Max temp recorded 36.6°C. Rain recorded on three days. Normal AEER = 3.8 or 3 Stars, as tested above, AEER 9.95 or 15 Stars



Actual daily usage, 10th January 2015, Total power usage for 24hrs 5.133kWh. Min temp recorded 22.1°C; Max temp recorded 30.2°C. No rain recorded.

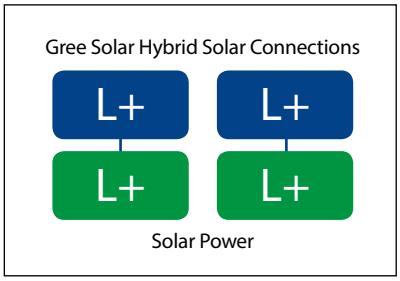
Connects Directly to the Solar Panels

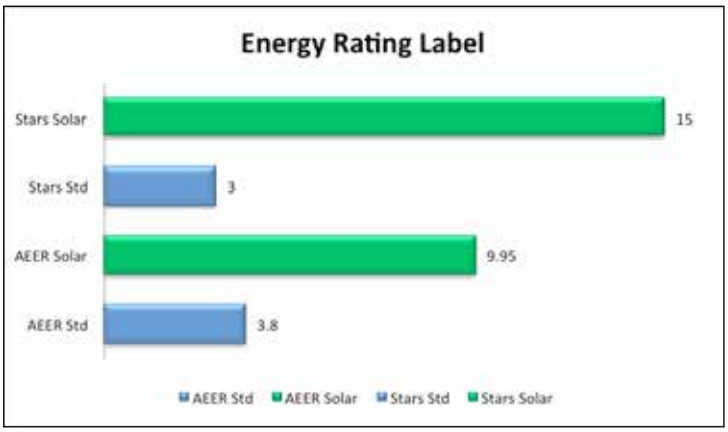
The Gree Solar Hybrid like all DC Inverter air conditioners runs on DC power converted from mains power. Gree's new Solar Hybrid can accept DC power directly from the Solar Panels without the need of an expensive inverter or controller. The solar DC power directly replaces the mains power being supplied by your energy provider. This can reduce daytime running costs by up to 97%.



Easy Solar Connections

Connection from the solar panels to the Gree Solar Hybrid outdoor is very simple with a terminal block mounted in the outdoor unit for the positive and negative cables straight from the solar panels. As easy as plug and play.





The graph shows the standard energy efficiency levels (blue) based on the factory test information used when registering these units for sale with authorities in Australia and New Zealand. Solar power is not allowed during these tests.

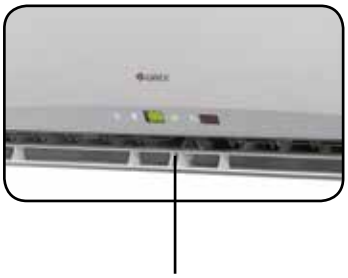
When connected to the solar panels (green), the energy efficiency jumps and according to the tests carried out in Brisbane with solar DC power, the Energy Rating label would need to show 15 stars

Features

Advanced Air Design

- Waterfall heating, the air is directed down during the heating mode
- An added extra inner louver operates when heating to improve airflow
- Automatically selects the airflow direction, horizontal for cooling and vertical for heating
- 10m overlong airflow

Extra inner louver works when cooling



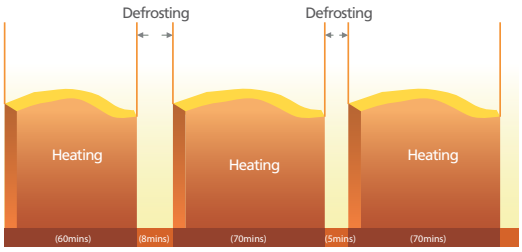
Extra inner louver is concealed when cooling

Cold Air Prevention

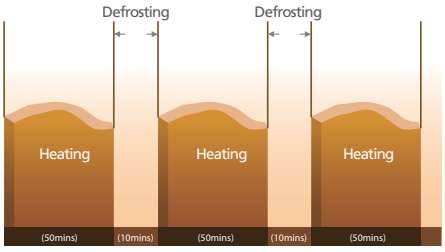
To prevent cold air blowing into the room when the unit is first turned on or after the defrost cycle; the indoor fan will remain off until the indoor coil reaches the desired room temperature setting.

Intelligent Defrosting

- Traditional defrosting works by running the defrost cycle based on a pre-set timer sequence.
- Gree's new I-Defrost are only performed when needed, which reduces energy waste by eliminating unnecessary defrosting.
- Maximise warm comfort with shorter defrost times



GREE I-Defrosting



Traditional Defrosting

De-humidifying

Gree air conditioners have an independent de-humidifying system in-built. Upon selecting the mode the air conditioner runs in the cooling mode with the indoor fan motor on low speed. The air conditioner cycles the compressor to allow the indoor coil to be coated in ice before defrosting the coil and remove the moisture from the room. This allows the unit to reduce the level of humidity in the room without over cooling the room.

Turbo Mode

This feature is designed to run the indoor fan at super high speed to cool or heat the room quickly so that the ambient temperature approaches the pre-set temperature as soon as possible. This allows the unit to unload quicker providing better comfort levels and energy usage

Anti-Corrosion Outdoor Unit

All Gree condensing soils have fin stock coated in blue hydrophilic coating giving greater corrosion resistance. All Gree condensing units are made from galvanised sheet steel that is then painted for added protection. Stainless steel screws are used throughout.

Benefits

Better Air Quality and Noise levels

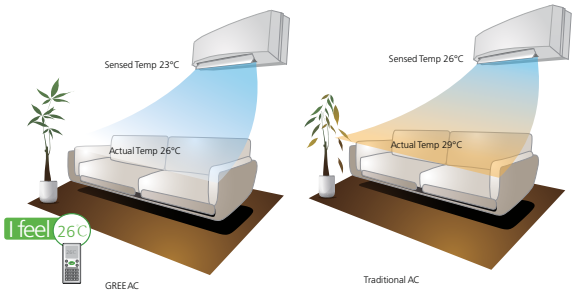
The Hansol range of Solar Hybrid Air Conditioners offers several features that improve air quality. All units come standard with filters to remove dust particles. Additional to this each unit is fitted with as standard a photo catalytic filter to remove bacteria, viruses and unpleasant odours.
The Hansol Solar Hybrid comes with seven fans speeds so that you can choose your desired level of air flow from super low to turbo. The auto fan feature enables the on board logic to select the best fan speed based on the indoor temperature and the thermostat set point. The Gree Solar Hybrid air conditioner benefits from smart fluid dynamic design; this has dramatically improved airflow through the air conditioner thus reducing indoor noise levels.

Mould and Odour Prevention

When used as an air conditioner and once the unit is switched off the indoor coil is wet and provides a great environment for mould and bacteria to grow. By pressing the X-Fan button on the remote control the indoor fan will continue to run on for 10 minutes after the unit has been switched. This assists in drying out the indoor coil and helps to prevent the growth of mould and bacteria as well as reducing bad odours in the unit.

I Feel

Gree Solar Hybrid air conditions come standard with the I-Feel remote control. This clever feature enables the unit to take the temperature reading from where we sense the indoor temperature rather than where the indoor unit senses the temperature. By pressing the "I Feel" button on the remote the room temperature is now recorded from a sensor in the remote control rather than from the unit itself. This gives intelligent temperature control where it is needed and provides a more precise and comfortable environment.



Wide Temperature Operation

Gree air conditioners and heat pumps are designed to operate efficiently from -15 to +45°C

Specifications

G10 Technology


I Feel


3D Airflow


Cold Air Prevention


Auto Restart


Lock


Drying Operation


Quiet Design


Timer

'Turbo' Button


Self-diagnosis


Soft Start

Low-Voltage Startup

Low-Temperature Startup

LED Display


Intelligent Defrosting

Auto Clean

Automatic Operation


Removable, Washable Panel


Healthy Filters

Features: Standard Optional

Cooling capacities are based on AS/NZ 3823.1.1.
Running current is rated at ASNZ 3823 standards and does not include compressor start-up or power supply variations. Failure to comply with relevant Government regulations may void the warranty. Due to continuous product improvements, specifications are subject to change without prior notice.

GREE ELECTRIC APPLIANCES INC. OF ZHUHAI

Based in the thriving industrial city of Zhuhai in China, GREE Electric Appliances is the world's largest specialised air conditioning enterprise. With nine manufacturing plants producing over 7,000 different models, sold to over 100 countries.

GREE employs over 5,000 R & D staff. This has allowed them to develop a wide range of quality products featuring energy saving technology, intelligent temperature control, smart defrosting and a wide range of filter options.

GREE's use of quality materials and state of the art manufacturing facilities has resulted in GREE maintaining its No 1 residential air conditioning global sales position since 2005. With more than 200 million users of residential air-conditioners globally, it's a quality you can trust.

Model		Unit	GWH12TB-K3DNA1F
Function			Cooling/Heating
Capacity	Cooling	W	3500 (300 ~ 3950)
	Heating	W	3800 (500 ~ 4550)
EER/COP		W/W	3.97/4.00
AEER		W/W	3.8
Star Rating (AEER)			2.5
ACOP		W/W	3.97
Star Rating (ACOP)			1.5
Power Supply		Ph, V, Hz	1 Ph, 220~240V, 50Hz
Power Input	Cooling	W	880 (110 ~ 1260)
	Heating	W	950 (140 ~ 1350)
Rated Current	Cooling	A	3.9
	Heating	A	4.2
Airflow Volume	Indoor	l/s	186
Indoor Unit			
Sound pressure levels	Indoor	db(A)(SH/H/M/L)	45/42/39/36/33/30/26
Outline Dimensions	WxHxD	mm	866x292x209
Net Weight	Indoor	kg	11
Outdoor Unit			
Sound pressure levels	Outdoor	db(A)	54
Piping Connection	Gas	mm	9.52
	Liquid	mm	6
Outline Dimensions	WxHxD	mm	899x596x378
Net Weight	Outdoor	kg	43
Solar Power Data			
No of Panels		Max	5
Max Output Power		W	1000
pen Circuit Voltage		V	22 ~ 165
Short Circuit Current		A	8.12
With Solar Power of 1000 watts			
Electric Power Input Rate L/N/H	Cooling	W	30 / 30 / 260
	Heating	W	30 / 30 / 350
Energy Saving Rate	Cooling	%	96
	Heating	%	97

Z1403 MEPSIV INDUSTRY LEADING 6 GREE YEAR WARRANTY 3DC G10 Inverter

For Installation and Sales:

For Parts and Warranty:

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