SOLAR COOL

ECO FRIENDLY • SOLAR POWERED • AIR CONDITIONER

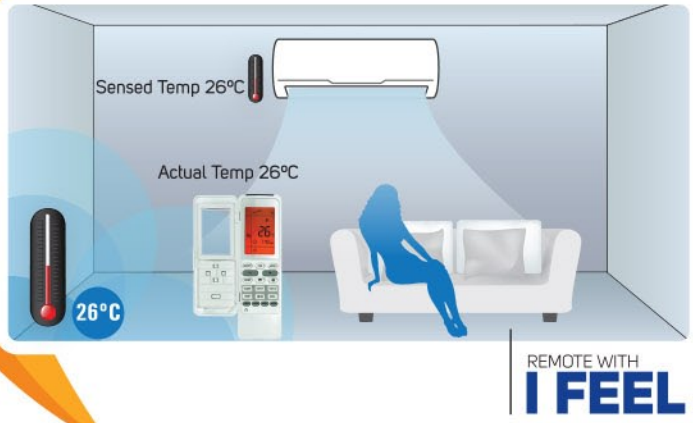
MALAYSIA'S FIRST
REVERSE CYCLE SOLAR PV-INVERTER AIR CONDITIONER

- MANUFACTURED WITH **LATEST INVERTER TECHNOLOGY**
- **BUILT-IN** SELF DIAGONSTIC **FAULT INDICATOR**
- **97%** OF OPERATING POWER FROM **SOLAR ENERGY**
- **VERY LOW** POWER CONSUMPTION LEVELS
- **ECO-FRIENDLY,** REDUCED CARBON FOOTPRINT
- **5 STAR,** ENERGY EFFICIENCY RATING

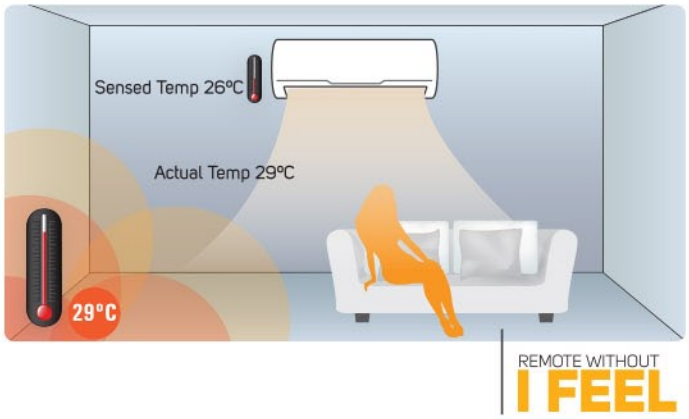
SPECIAL **FEATURES**

I FEEL

The mini sensor in the remote can sense its surrounding temperature, and transmit the signal back to the indoor unit. This enables the unit to adjust the air flow volume and temperature accordingly so as to provide maximum comfort.



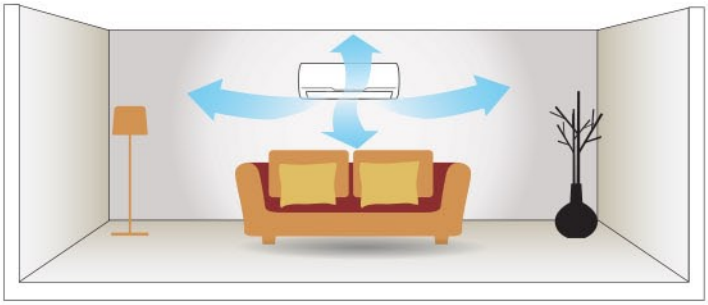
REMOTE WITH **I FEEL**



REMOTE WITHOUT **I FEEL**

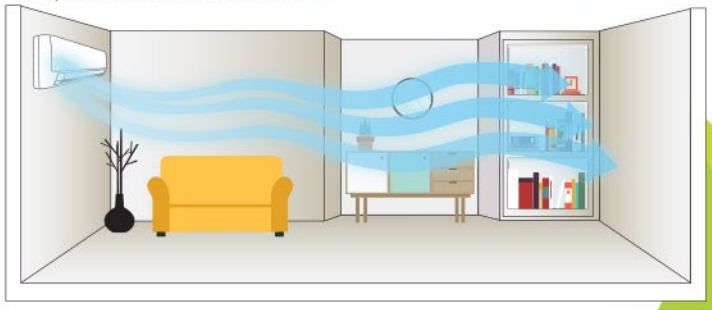
4 WAY AIR OUTLET

The louver can be vertically or horizontally adjusted to maximize comfort in the room.



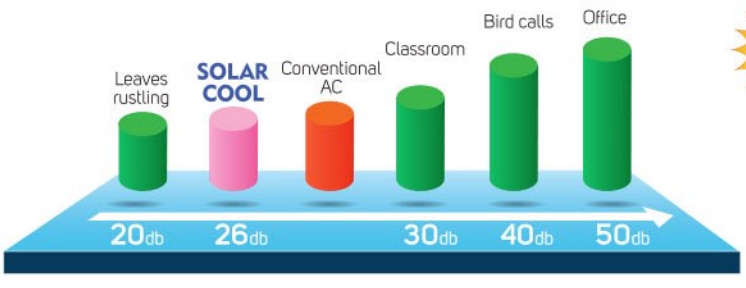
TURBO COOLING

Press "Turbo" button on the remote to enjoy a larger air flow, which enables the indoor temperature to reach the set temperature in a shorter time.



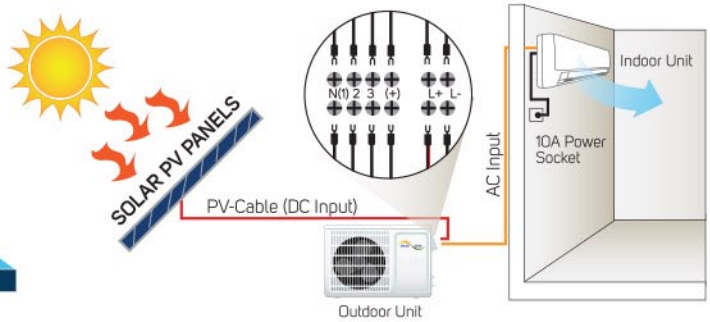
LOW NOISE

The noise level is only around 26 decibels; so quiet, you will not realise it's turned on.

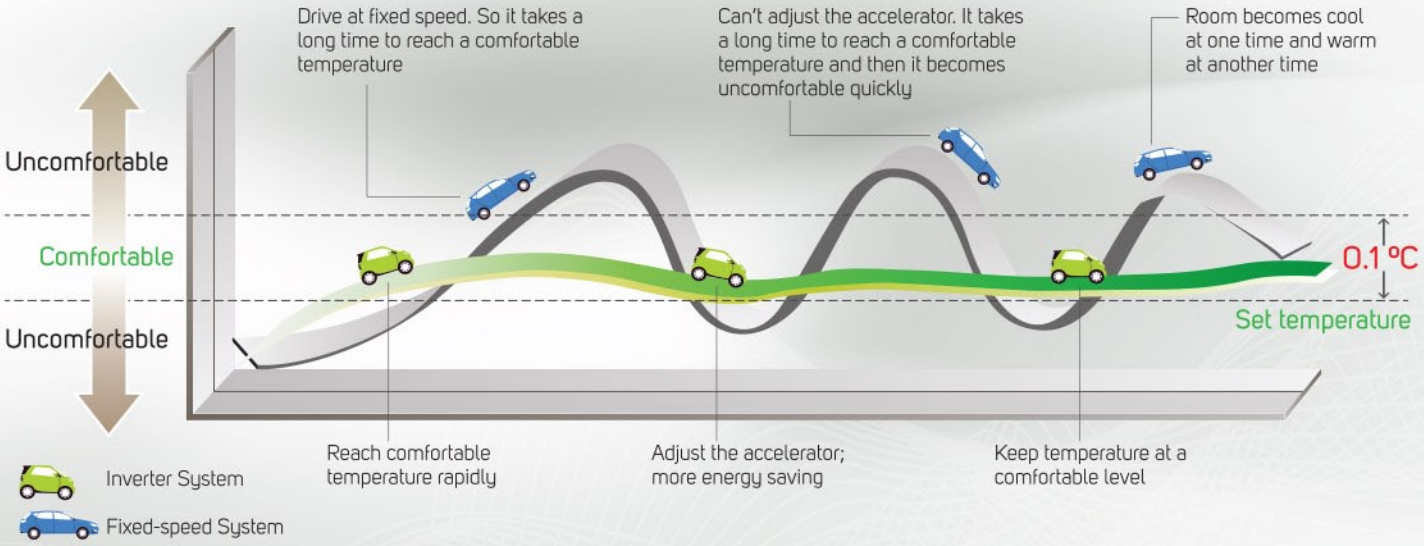


EASY FIXING

The Solar panels are connected directly to the outdoor unit in an easy fix method.



HOW AN INVERTER **SAVES ENERGY**



*OUTPUT POWER VARIATION DIAGRAMMATIC SKETCH

1 FASTER COOLING

2 0.1°C PRECISE TEMP CONTROL

3 UP TO 97% ENERGY SAVING

4 R410A ECO-FRIENDLY REFRIGERANT

REMOTE **OPERATION**

FAN — Choose fan speed

MODE — Choose operation mode: Auto, Cool, Dry, Fan & Heat

− — Decrease set temperature; hold the button for 2 seconds for rapid decrease

+ — Increase set temperature; hold the button for 2 seconds for rapid increase

TIMER OFF — For turning off timer

TEMP — Show set indoor/outdoor temperature

⚡/⌂ — Start the ventilation system or generate cold plasma

IFEEL — Unit operation will be adjusted according to temperature sensed by remote to maximize comfort

TURBO — For rapid cooling or heating

⇔ — Set the horizontal swing angle

⇕ — Set the vertical swing angle

CLOCK — Set present time or display timer

SLEEP — Unit will run according to the preset sleep temperature

QUIET — Choose auto quiet mode

LIGHT — Turn on/off the light on the unit

X-FAN — Start/stop indoor fan which is used for drying the components

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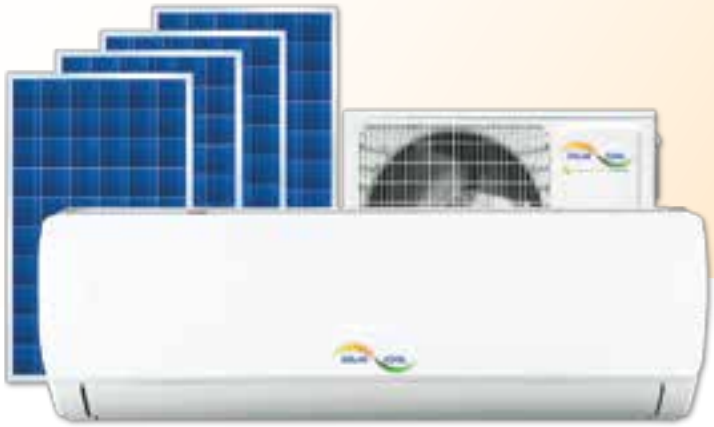
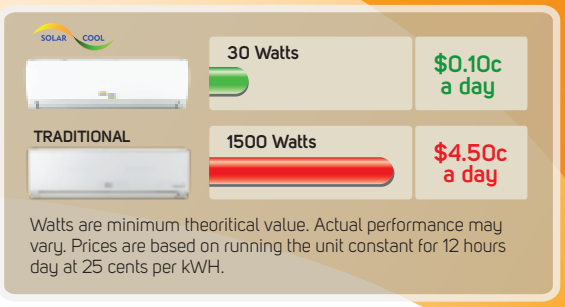


POWER CONSUMPTION



Watts are minimum theoritical value. Actual performance may vary. Prices are based on running the unit constant for 12 hours day at 25 cents per kWH.

TECHNICAL INFORMATION

G10 Inverter

SOLAR COOL (DC INVERTER) - 12,000 BTU

MODEL			SCO/SCI-12G
Function			*Cooling/Heating*
Capacity	Cooling	kW/h	3.5kW(0.3kW – 3.95kW)
	Heating	kW/h	3.8kW(0.5kW – 4.55kW)
Electric Data			
Power Supply		Ph,V, Hz	1Ph, 208~230V, 50Hz
Power Input	Cooling	W	880 (110 – 1260)
	Heating	W	950 (140 – 1350)
Solar Power Data			
Open Circuit Voltage	Voc	V	149.6
Short Circuit Current	Isc	A	8.83
Maximum Output Power	4 Panels	W	1000
Performance			
EER	Cooling	W/W	5.03
COP	Heating	W/W	5.05
SEER	Cooling	Btu/h/W	16.58
HSPF	Heating	Btu/h/W	16.58
Airflow	Indoor unit	M3/h	670
Noise (H/M/L)	Indoor	dB(A)	45/39/33
	Outdoor	dB(A)	54
With Solar Power of 1000W			
Electric Power Input	Cooling	W	30/30/180
(L/M/H)	Heating	W	30/30/200
Energy Saving Rate	Cooling	%	Up to 97%
(Percentage)	Heating	%	Up to 97%
Dimension & Weight			
Body Dimension	Indoor unit	mm	866x205x292
(WxDxH)	Outdoor unit	mm	899x378x596
Package Dimension	Indoor unit	mm	945x297x377
(WxDxH)	Outdoor unit	mm	945x420x652
Net Weight/Gross Weight	Indoor unit	Kg	11/14
	Outdoor unit	Kg	43/47

High Energy Efficiency

Experience the refreshing comfort and save more energy

5 Star Rating

Enjoy a 5 Star energy rating without the aid of a solar power

Advanced Airflow Design

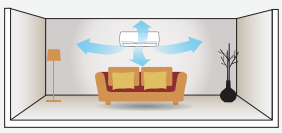
10m overlong airflow
Automatic horizontal airflow
Waterfall heating airflow

Air Purfying Filters

Several optional healthy filters provide more protection for your family's health

Wide Angle Air Outlet

Four dimensional air outlet to enjoy the comfortable feeling everywhere



- G10 Technology
- 1 W Standby
- Automatic Operation
- LED Display
- Intelligent Defrosting
- 3D Airflow
- Clock Display
- 8°c Heating
- 3 Sleep Curves
- Cold Air Prevention
- Timer
- 'Turbo' Button
- Self-diagnosis
- Auto Restart
- Lock
- I Feel
- Air Flow Direction Control
- Auto Clean
- Quiet Design

3 YEAR WARRANTY

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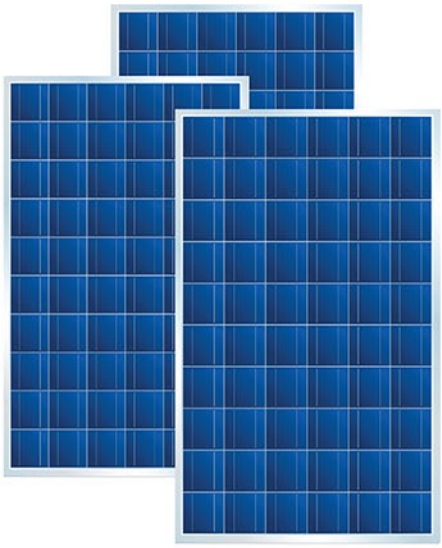
SOLAR PV MODULE
250 WATTS

PRODUCT **FEATURES**

- Polycrystalline Silicon Photovoltaic Modules
- 10 year product warranty
- 25 year performance warranty for up to 80.6% power output
- 10 year performance warranty for up to 91.2% power output



TEMPERATURE CHARACTERSTICS
NOCT (Nominal Operation Temperature): 45° ± 2°C
Temperature Coefficient: -0.30% / °C
Current Temperature Coefficient: -0.05% / °C
Power Temperature Coefficient: -0.40% / °C

ABSOLUTE MAXIMUM RATING	
PARAMETER	VALUES
Operating Temperature	From -40° to + 85°
Typical Application	24 V DC
Hail Diameter @ 80km/h	Up to 25 mm
Maximum Series Fuse Rating	20A
IEC Application Class (IEC 61215)	A
Fire rating (UL 1703)	C
Maximum System Voltage	1000 V DC (IE 61215)
	600 V (UL 1703)

MECHANICAL CHARACTERSTICS	
External Dimensions	1640 x 992 x 40 mm
Solar Cells	Polycrystalline 156 x 156 mm (60 pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized/Electrophoretic aluminium alloy
Junction Box	IP65/67
Output Cables	4.0mm², symmetrical lengths 1000mm
Connectors	MC4 Compatibile
Maximum Snow Load	550 kg/m²
Maximum Wind Load	130 km/h
Hailstone Impact Test	80 km/h for 25mm ice ball
Weight	19kg

ELECTRICAL TYPICAL VALUES							
Module	Rated Power P (Max)	Tolerance	Rated Current (Imp)	Rated Voltage (Imp)	Short Circuit Current (Isc)	Open Circuit Voltage(Voc)	Module Efficiency
Unit	W	A	A	V	A	V	%
SC-V2-250W	250	0~+5A	8.31	30.1	8.83	37.4	15.8

ADDITIONAL **FEATURES**

POSITIVE TOLERANCE
Guaranteed positive tolerance up to 5% or up to 13W and delivers higher outputs' reliably.

EASY INSTALLATION
Low weight, convenient format hoizontal and vertical installation possible with optimal utilization of the roof surface.

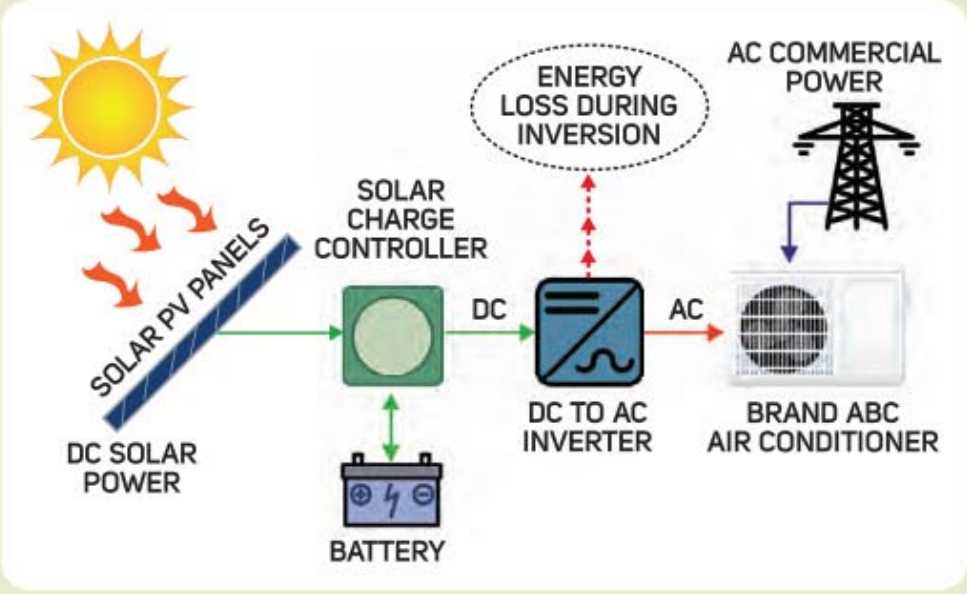
INDEPENDENTLY CERTIFIED
Independently certified by international certification bodies.

HIGH PERFORMANCE
High performance even under low light and cloudy conditions.

COMPARISON BETWEEN
TRADITIONAL SOLAR Vs
SOLAR COOL AIR CONDITIONER

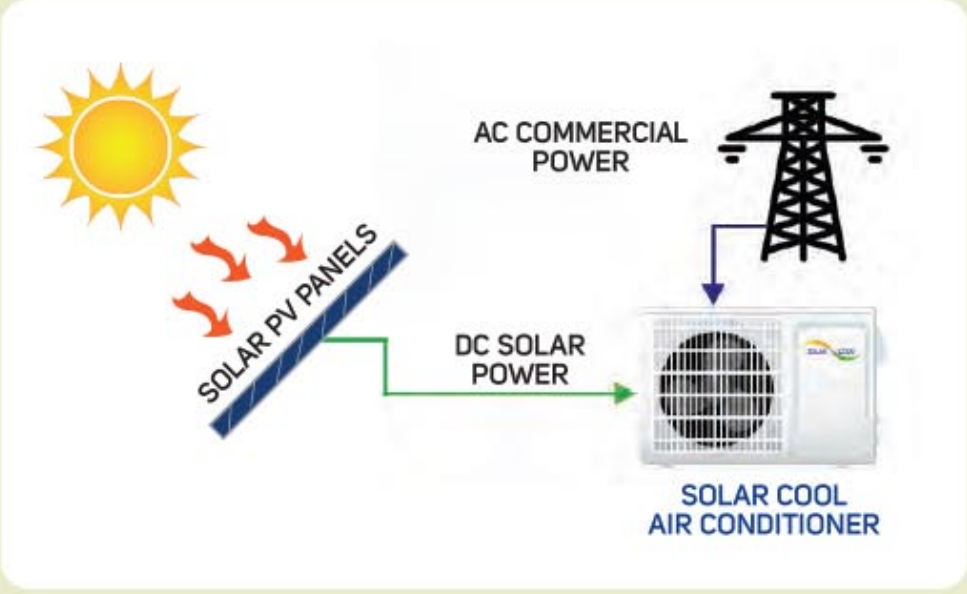
INEFFICIENT USE OF SOLAR PV PANELS IN TRADITIONAL SOLAR AIR CONDTIONERS

Normal traditional solar air conditioners use third party components that are not fully compatible and causes loss during inversion resulting in reduced operating efficiency.



VERY EFFICIENT USE OF SOLAR PV PANELS IN SOLAR COOL AIR CONDITIONER

No third party components are used. The built-in patented Power Supply Control Module (PSCM) is very efficient and results in improved operating efficiency.



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www.solarcoolairconditioner.com