

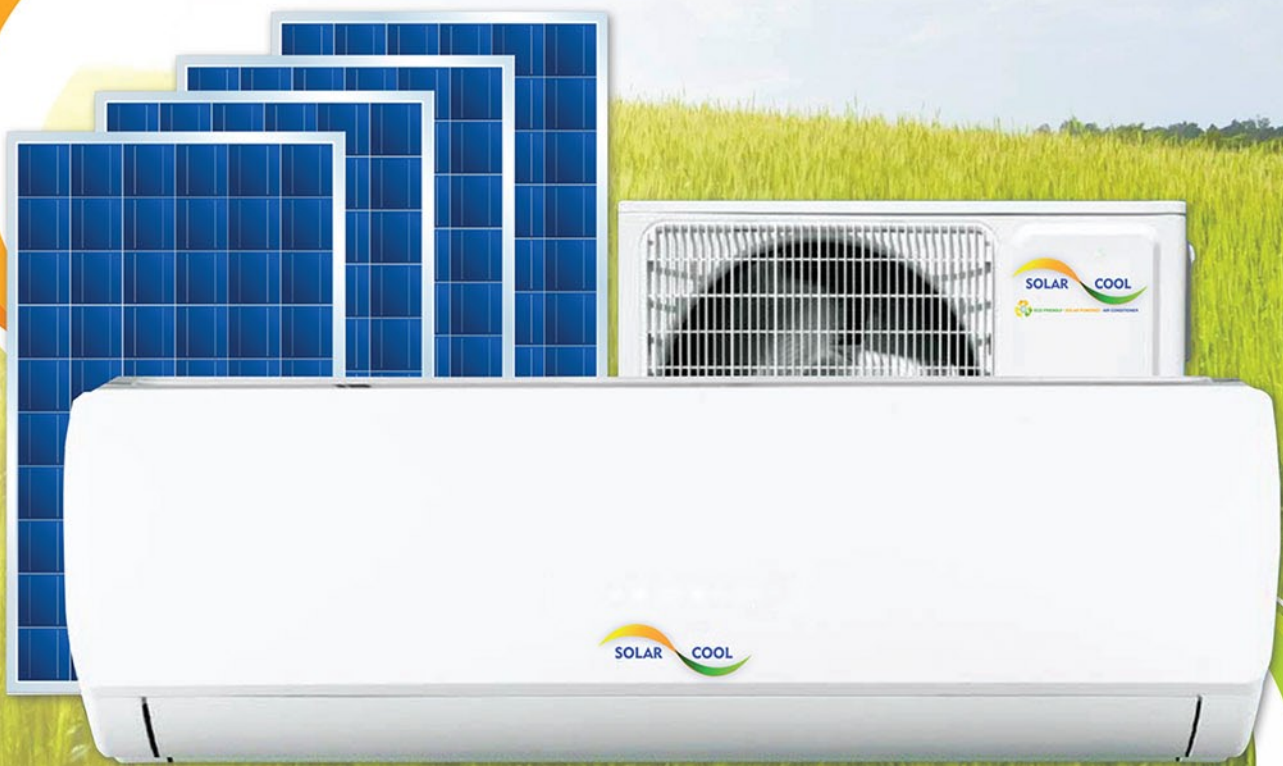
**SOLAR**

**COOL**



ECO FRIENDLY • SOLAR POWERED • AIR CONDITIONER

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



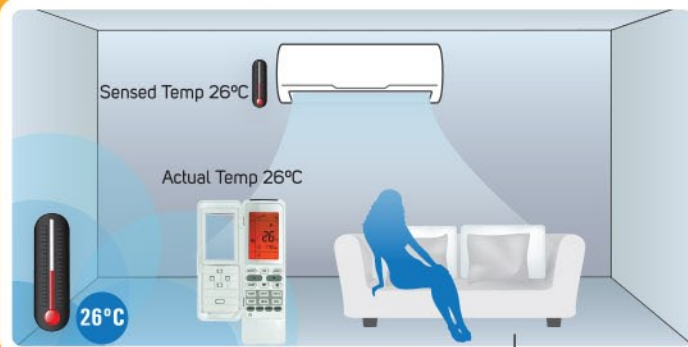
- ✓ MANUFACTURED WITH **LATEST INVERTER TECHNOLOGY**
- ✓ **97%** OF OPERATING POWER FROM **SOLAR ENERGY**
- ✓ **VERY LOW** POWER CONSUMPTION LEVELS
- ✓ **ECO-FRIENDLY**, REDUCED CARBON FOOTPRINT

# SPECIAL FEATURES

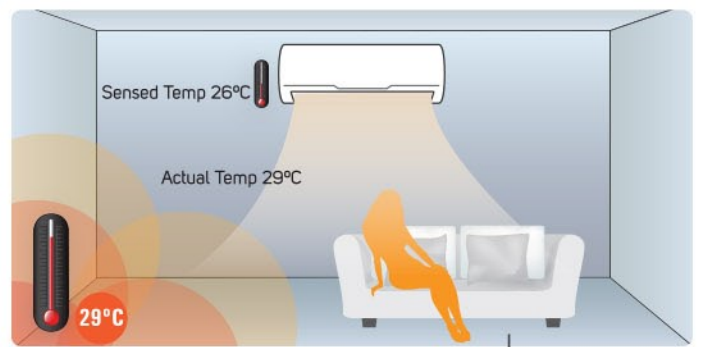


## I FEEL

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.



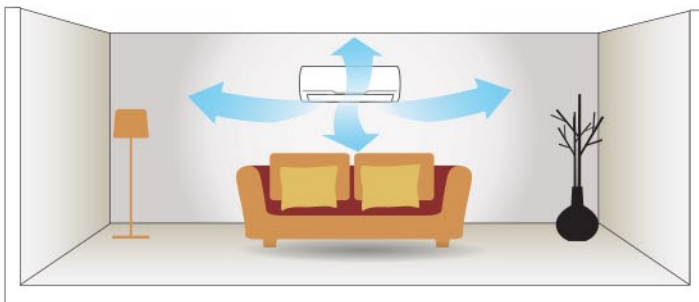
REMOTE WITH  
**I FEEL**



REMOTE WITHOUT  
**I FEEL**

## 4 WAY AIR OUTLET

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



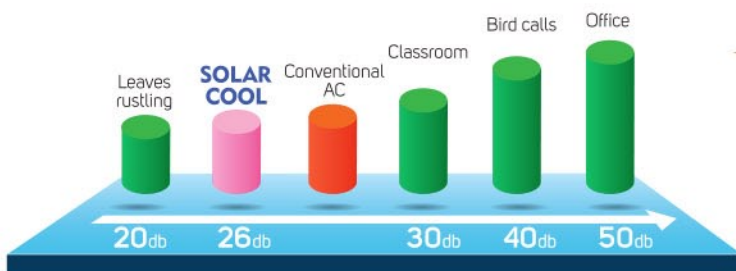
Press "Turbo" button on the remote to enjoy a larger air flow, which enables the indoor temperature to reach the set temperature in a shorter time.

## TURBO COOLING



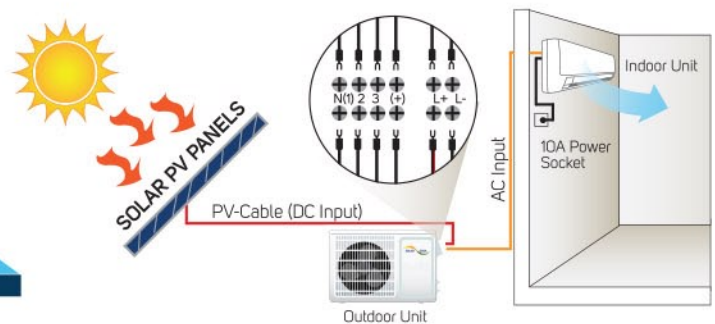
## LOW NOISE

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

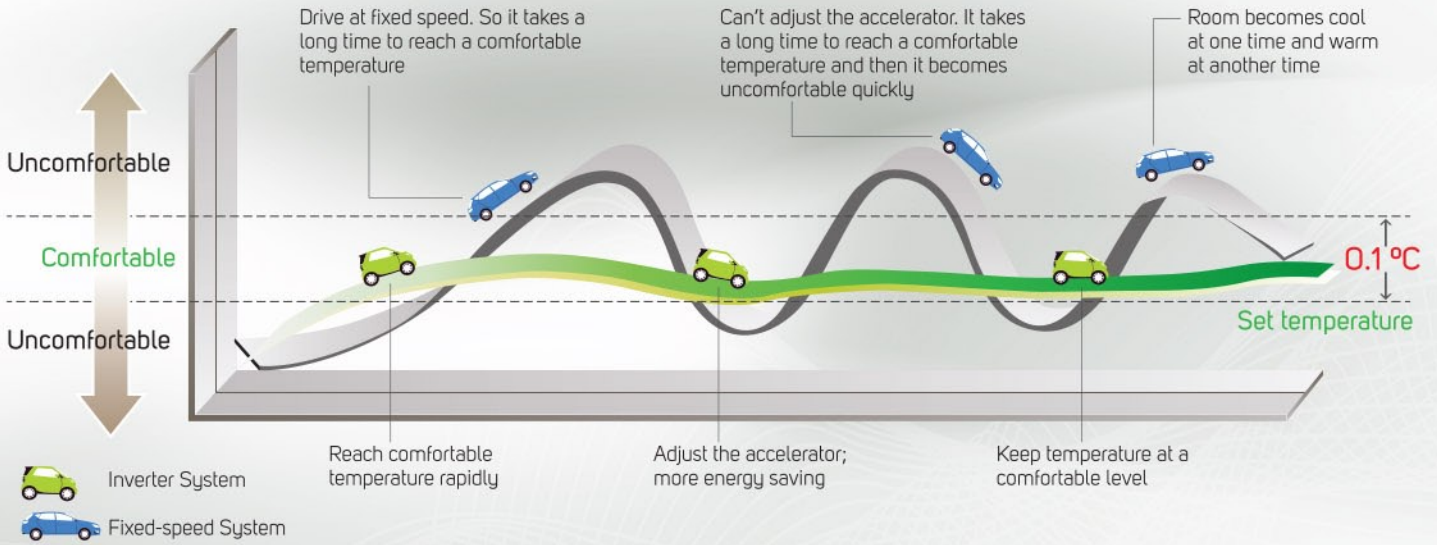


The Solar panels are connected directly to the outdoor unit in an easy fix method.

## EASY FIXING



# 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

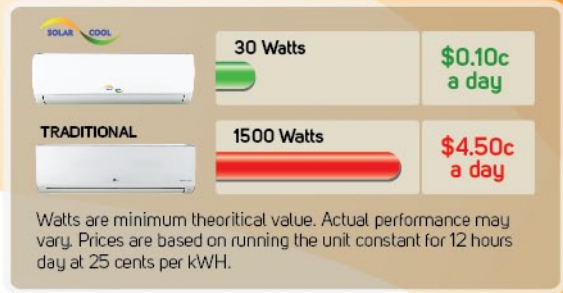


## REMOTE OPERATION

- |  |  |   |  |
|--|--|---|--|
| <p><b>FAN</b></p> <p>Choose fan speed</p>  | <p><b>MODE</b></p> <p>Choose operation mode: Auto, Cool, Dry, Fan &amp; Heat</p> | <p><b>-</b></p> <p>Decrease set temperature; hold the button for 2 seconds for rapid decrease</p> | <p><b>+</b></p> <p>Increase set temperature; hold the button for 2 seconds for rapid increase</p>                        |
| <p><b>TIMER OFF</b></p> <p>For turning off timer</p>                               | <p><b>TEMP</b></p> <p>Show set indoor/outdoor temperature</p>                    | <p><b>扇/窗</b></p> <p>Start the ventilation system or generate cold plasma</p>                     | <p><b>IFEEL</b></p> <p>Unit operation will be adjusted according to temperature sensed by remote to maximize comfort</p> |
| <p><b>TURBO</b></p> <p>For rapid cooling or heating</p>                            | <p><b>扇</b></p> <p>Set the horizontal swing angle</p>                            | <p><b>窗</b></p> <p>Set the vertical swing angle</p>   | <p><b>CLOCK</b></p> <p>Set present time or display timer</p>   |
| <p><b>SLEEP</b></p> <p>Unit will run according to the preset sleep temperature</p> | <p><b>QUIET</b></p> <p>Choose auto quiet mode</p>                                | <p><b>LIGHT</b></p> <p>Turn on/off the light on the unit</p>                                      | <p><b>X-FAN</b></p> <p>Start/stop indoor fan which is used for drying the components</p>                                 |



**POWER CONSUMPTION**



**TECHNICAL INFORMATION**

**SOLAR COOL (DC INVERTER)**

<b>MODEL</b>		<b>SCO/SCI-12G</b>	
<b>Function</b>		<b>Cooling/Heating</b>	
<b>Capacity</b>	Cooling	W	3500 (300-3950)
	Heating	W	3800 (500 - 4550)
<b>Electric Data</b>			
Power Supply		Ph,V, Hz	1Ph, 208-230V, 50Hz
Power Input	Cooling	W	800 (110 - 1260)
	Heating	W	950 (140 - 1350)
<b>Solar Power Data</b>			
Open Circuit Voltage	Voc	V	37.4-149.6
Short Circuit Current	Isc	A	8.31
Maximum Output Power	4 Panels	W	1000
<b>Performance</b>			
EER	Cooling	W/W	3.98
COP	Heating	W/W	4.0
SEER	Cooling	Btu/h/W	20
HSPF	Heating	Btu/h/W	9.6
Airflow	Indoor unit	M3/h	670
Noise (H/M/L)	Indoor	dB(A)	36/32/26
	Outdoor	dB(A)	55(H)
<b>With Solar Power of 1000W</b>			
Electric Power Input Rate	Cooling	W	30/30/450
	Heating	W	30/35/500
Energy Saving Rate	Cooling		97%
	Heating		93%
<b>Dimension &amp; Weight</b>			
Body Dimension (WxDxH)	Indoor unit	mm	865x290x195
	Outdoor unit	mm	878x370x590
Package Dimension (WxDxH)	Indoor unit	mm	945x380x290
	Outdoor unit	mm	945x420x652
Net Weight/Gross Weight	Indoor unit	Kg	11/14
	Outdoor unit	Kg	40/44



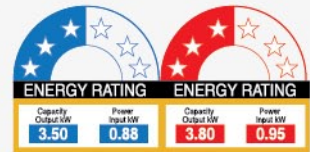
**High Energy Efficiency**

Experience the refreshing comfort and save more energy



**3 Star Rating**

Enjoy a 3 Star energy rating without the aid of a solar power



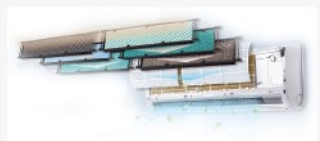
**Advanced Airflow Design**

10m overlong airflow  
Automatic horizontal airflow  
Waterfall heating airflow



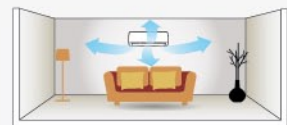
**Air Purifying Filters**

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

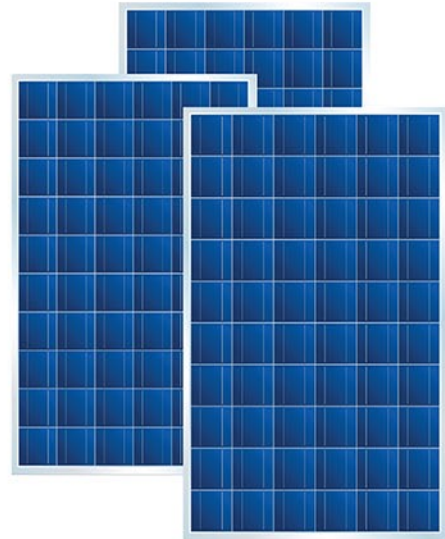


G10 Technology	1W Standby	Automatic Operation	LED Display	Intelligent Defrosting	3D Airflow	Clock Display	8°C Heating	3 Sleep Curves	Cold Air Prevention
Timer		Self-diagnosis	Auto Restart	Lock	I Feel	Air Flow Direction Control	Auto Clean	Quiet Design	

# 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 CHARACTERISTICS
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 CHARACTERISTICS	
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	4.0mm <sup>2</sup> , symmetrical lengths 1000mm
Connectors	MC4 Compatible
Maximum Snow Load	550 kg/m <sup>2</sup>
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 horizontal and vertical installation possible with optimal utilization of the roof surface.



### INDEPENDENTLY CERTIFIED

Independently certified by international certification bodies.



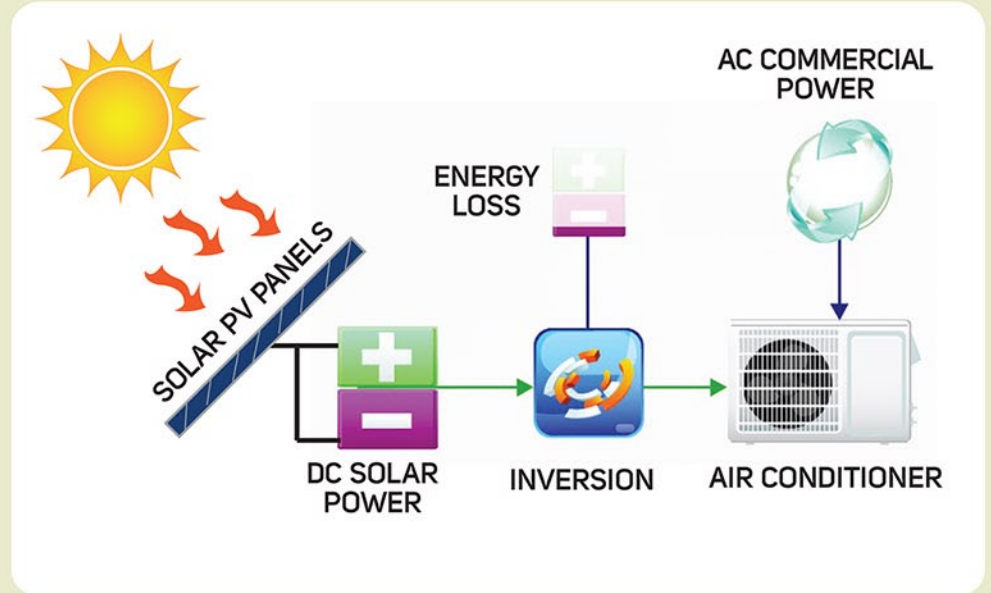
### HIGH PERFORMANCE

High performance even under low light and cloudy conditions.

# COMPARISON BETWEEN TRADITIONAL SOLAR Vs SOLAR COOL AIR CONDITIONER

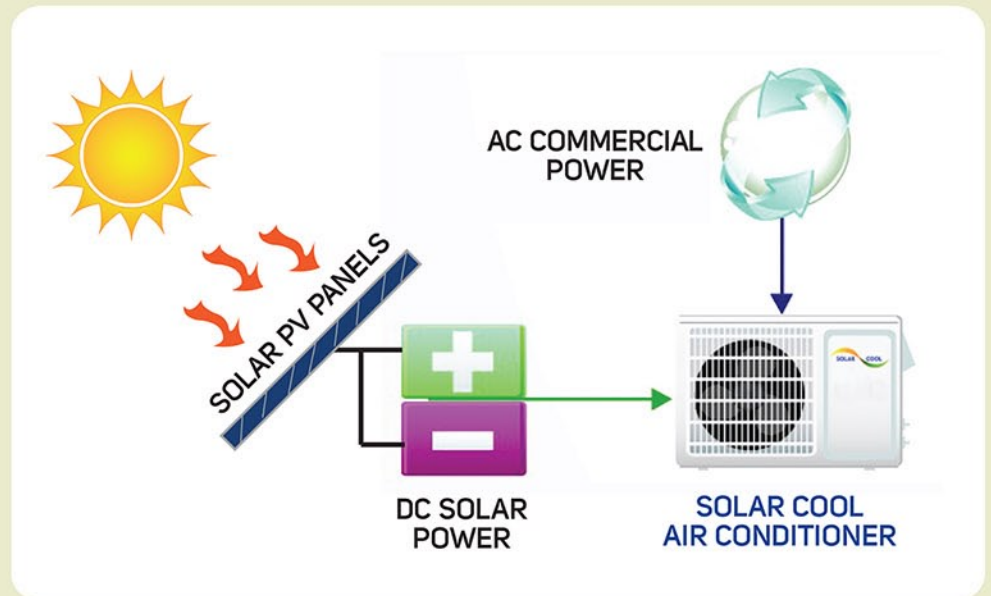
## INEFFICIENT USE OF SOLAR PV PANELS IN TRADITIONAL SOLAR AIR CONDITONERS

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.



[www.solarcoolairconditioner.com](http://www.solarcoolairconditioner.com)

