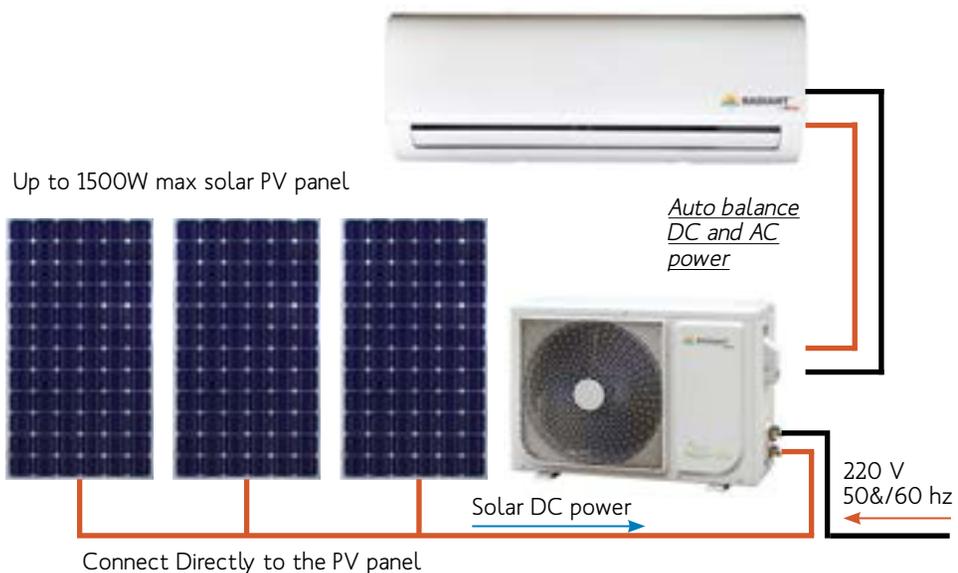




Solar Hybrid  
Mini - Split A/C



## Solar Hybrid Mini - Split A/C



The sun is the primordial source of energy of our planet. All living things rely on its energy to live, it is the lifeblood for plants, animals and humans, so it is just logical to try harvesting this energy, that we all receive for free, and transform it for our benefit. For many years, solar energy has been used to generate electricity, and to produce hot water, but not much has been achieved, on the direct use of solar energy, for air conditioning. Any solar photovoltaic system, is capable of generating enough electricity, to power air conditioning units, but so far, this has been done through the use of inverters, and batteries for energy storage, and the end result is that conventional A/C units, are fed with the same AC electricity as provided by the grid. They rely on inverters and batteries. So they are not true solar powered systems.

## Solar Hybrid Mini - Split A/C

Up to  
**34**  
SEER



Model		MACDC-09-SBP	MACDC-12-SBP	MACDC-18-SBP	MACDC-24-SBP	
Power Supply	V/Ph/Hz	220/1/50-60 AC - 50-380V DC				
Cooling	Capacity	BTU/h	9.000	12.000	18.000	24.000
	Power	Watts	590	865	1320	1980
	Current	Amps	2,68	3,93	6,0	9,0
Heating	Capacity	BTU/h	9.500	13.000	19.000	25.000
	Power	Watts	625	880	1.465	2.050
	Current	Amps	2,84	4,0	6,66	9,32
Evaporator	W x D x H	Inches	33.5 x 7.3 x 11.4"	33.5 x 7.3 x 11.4"	37.7 x 8.4 x 12"	41.0 x 8.7 x 12.9"
	Net Weight	Lbs	18	18	21	26
Condensing Unit	W x D x H	Inches	33 x 12.6 x 21"	33 x 12.6 x 21"	33 x 12.6 x 21"	36 x 13.4 x 27.6"
	Net Weight	Lbs	73	77	85,8	123
Outdoor noise level		dB(A)	<50	<50	<52	<56
Units per 20' container		Systems	87	87	83	52
PV Panels Qty.	Pieces x Watt		4 x 200	4 x 250	4 x 300	5 x 300

MESAN USA, under the RADIANT brand, has developed an innovative line of solar hybrid air conditioning equipment, which can be directly powered by DC electricity from the PV panels on the roof. We call them "hybrid", because they can also be powered by AC electricity, from the grid. So during daylight hours, the A/C unit will run on DC power, and at night it will run on AC power.

On cloudy days the internal smart controller will balance both energy sources, and use the maximum possible DC, while supplementing any deficit with AC electricity, all is done automatically. No need for inverters or batteries.

This catalog covers our single-zone DX mini-splits product line. Each system consists of an indoor ductless hi-wall evaporator unit, an outdoor condensing unit, a wireless remote controller, and an

insulated copper tubing kit (3 meters long). These units use environmentally friendly R401A refrigerant.

Capacities range from 9,000 BTU/h to 24,000 BTU/h each, in 4 different models.

A nice feature is, that they can be installed with or without PV solar panels, although their maximum efficiency is accomplished when using our recommended number of PV panels (see table above for quantities per model). For instance, a 9,000 BTU system, requires 4 x 200 Watts PV panels, but it can be installed with 1; 2 or 3 panels too.

SEER ratings are in the >34 range, making these products the most efficient ones in the market.



RADIANT Air Conditioning is exclusively  
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