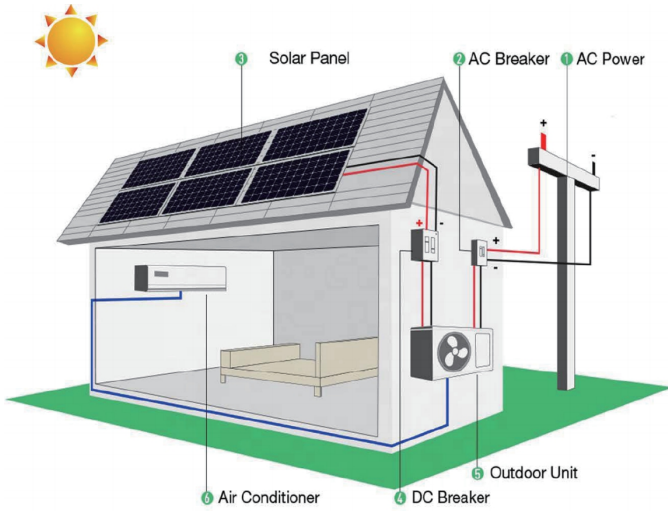


Solar Air Conditioner Catalog

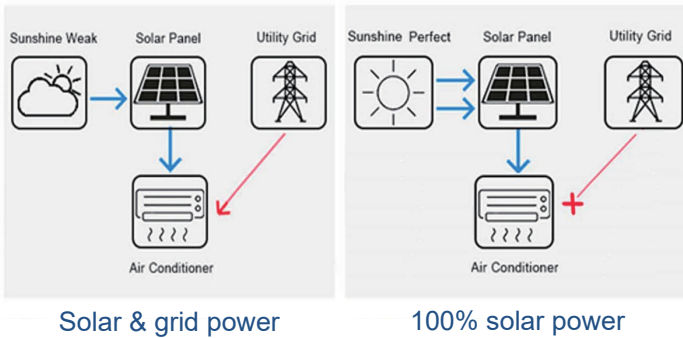


How does solar AC work?

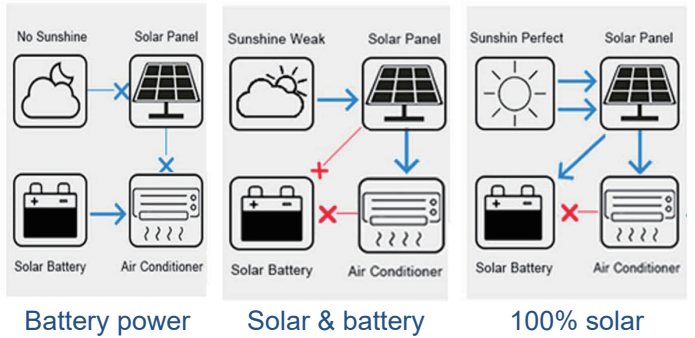


AC/DC dual power hybrid solar air conditioning system is a combination of DC solar power and AC grid power, with simple plug-in-and-play, the power from solar DC power to supply indoor & outdoor fan motors and compressors with priority. When the solar DC power is insufficient, with equipped dual MPPT tracking device, the system will switch to AC grid power automatically, with close interaction without interruption A/C unit operating. Direct DC solar powered A/C unit is designed to work only by DC solar power, If need to keep the A/C unit working around the clock, GEL or FLP battery is required.

1. DC/AC MODEL



2. PURE DC MODEL 24 HOUR (BATTERY REQUIRED)



3. WE ARE THE EXPERTS

On grid (ACDC)



The places where air conditioner needed mostly during the day

Off grid (DC48v)



The places where there is no 220v-240v AC grid power available

On/Off grid



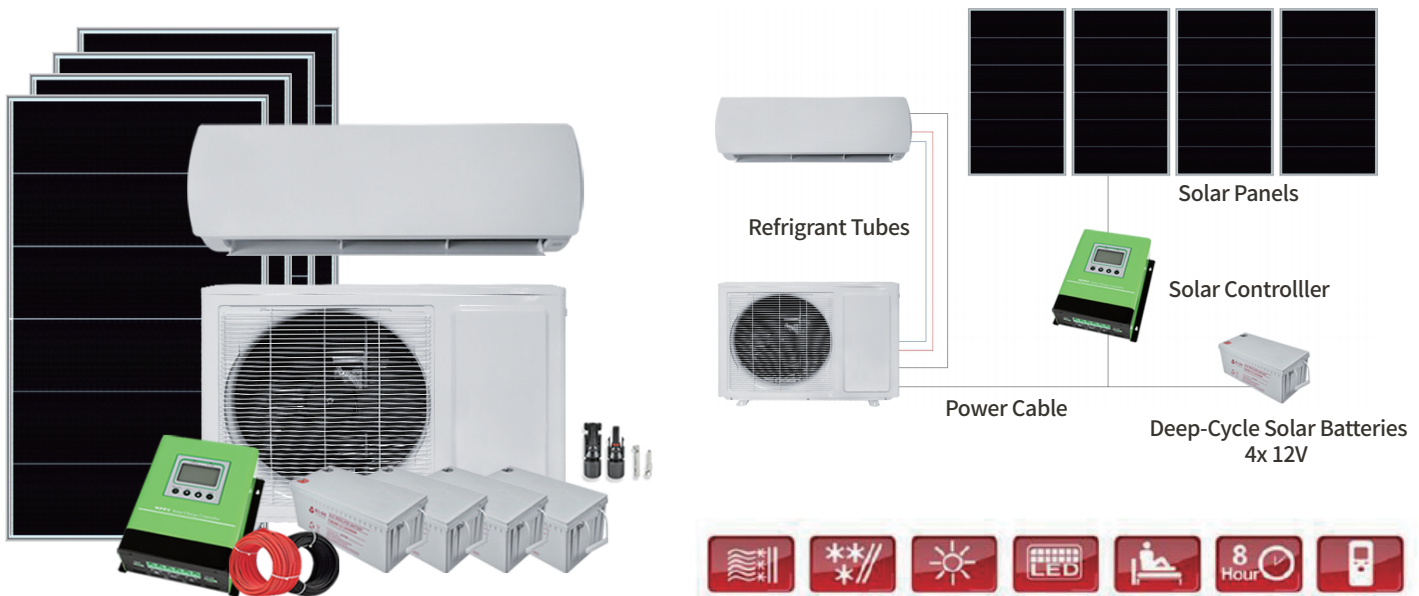
The places where often grid power cut

On grid (ACDC) Light commercial and Central systems



We provide full solutions for different requirements

DC48V inverter type air conditioner



SPECIFICATIONS:

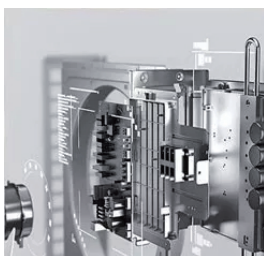
Model No.		1HP		1.5HP		2HP		2.5HP		3HP	
		0.75ton		1ton		1.5ton		1.8ton		2ton	
Performance											
Capacity	Cooling	Btu/h	9000	12000	18000	20000	24000				
		W	2600	3500	5200	6000	7200				
Noise	Indoor	dB(A)	≤40	≤42	≤43	≤45	≤50				
	Outdoor	dB(A)	≤50	≤52	≤54	≤56	≤58				
Air Circulation		m ³ /h	450	550	650	850	1050				
Suitable Area		m ²	10~15	12~25	20~30	26~42	30~48				
EER		W/W	4.56	3.89	4.00	4.66	4.67				
		Btu/h/w	15.79	13.33	13.85	14.29	16.00				
SEER		Btu/h/w	25.30	26.60	25.80	26.50	26.40				
Refrigerant			R-410A	R-410A	R-410A	R-410A	R-410A				
Work Temp.		°C	-15~60	-15~60	-15~60	-15~60	-15~60				
Power Consumption											
Power Input		W	650	900	1300	1400	1500				
Rated Current		A	28/14	35/18	27	30	33				
Input Power		V	DC24/48	DC24/48	DC 48	DC 48	DC 48				
Dimension											
Indoor Unit	NET	mm	745*255*195	775*260*210	1070*385*265	1070*385*265	1070*385*265				
	Shipping	mm	780*240*305	840*325*265	1100*400*285	1100*400*285	1100*400*285				
Outdoor Unit	NET	mm	645*245*495	790*260*540	850X290X580	850X290X580	850X290X580				
	Shipping	mm	725*320*540	910*370*610	995*390*650	995*390*650	995*390*650				
Weight											
Indoor Unit	Net/Gross	kg	11/13	13/15	15/17	16/18	20/22				
Outdoor Unit	Net/Gross	kg	38/40	45/48	48/52	48/53	48/55				

DC24V/48V 100% PURE air conditioner

SPECIFICATIONS:

Model No.		0.5HP		1HP		1.5HP		2HP	
				0.75ton		1ton		1.5ton	
Performance									
Capacity	Cooling	Btu/h	5000	9000	12000	18000			
		W	1600	2600	3500	4300			
	Heating	Btu/h		10000	13000	18000			
W			2800	3700	4800				
Noise	Indoor	dB(A)	≤40	≤40	≤42	≤43			
	Outdoor	dB(A)	≤50	≤50	≤52	≤54			
Air Circulation		m ³ /h	450	450	550	650			
Suitable Area		m ²	10~15	10~15	12~25	20~30			
EER		W/W	4.96	4.56	4.67	4.78			
		Btu/h/w	15.79	15.79	16.00	20.00			
Refrigerant			R-134A	R-134A	R-134A	R-134A			
Compressor			DC 24V	DC 24V	DC 48V	DC 48V			
Work Temp.		°C	-15~60	-15~60	-15~60	-15~60			
Power Consumption									
Power Input		W	300	570	750	900			
Rated Current		A	12	22	16	22			
Input Power		V	DC 24V	DC 24V	DC 48	DC 48			
Dimension									
Indoor Unit	NET	mm	745*255*195	775*260*210	775*260*210	990*320*210			
	Shipping	mm	780*240*305	840*325*265	840*325*265	1070*395*285			
Outdoor Unit	NET	mm	645*245*495	790*260*540	790*260*540	850X290X580			
	Shipping	mm	725*320*540	910*370*610	910*370*610	995*390*650			
Weight									
Indoor Unit	Net/Gross	kg	9/13	7/9	8/10	13/15			
Outdoor Unit	Net/Gross	kg	38/40	25/28	28/31	35/38			

DETAILS IMAGES



Outdoor unit

Rust and corrosion resistance.



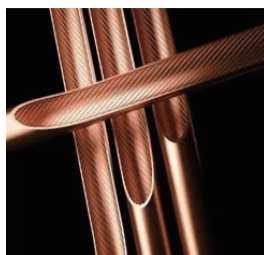
Compressor

Strong power, stable performance.



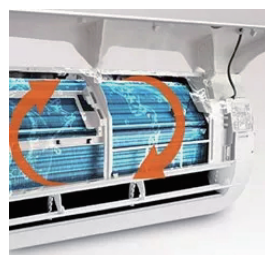
Motor

Pure copper coils increase efficiency.



Copper tube

Inner grooved design improve the heat transfer rate.



Double-muting technology

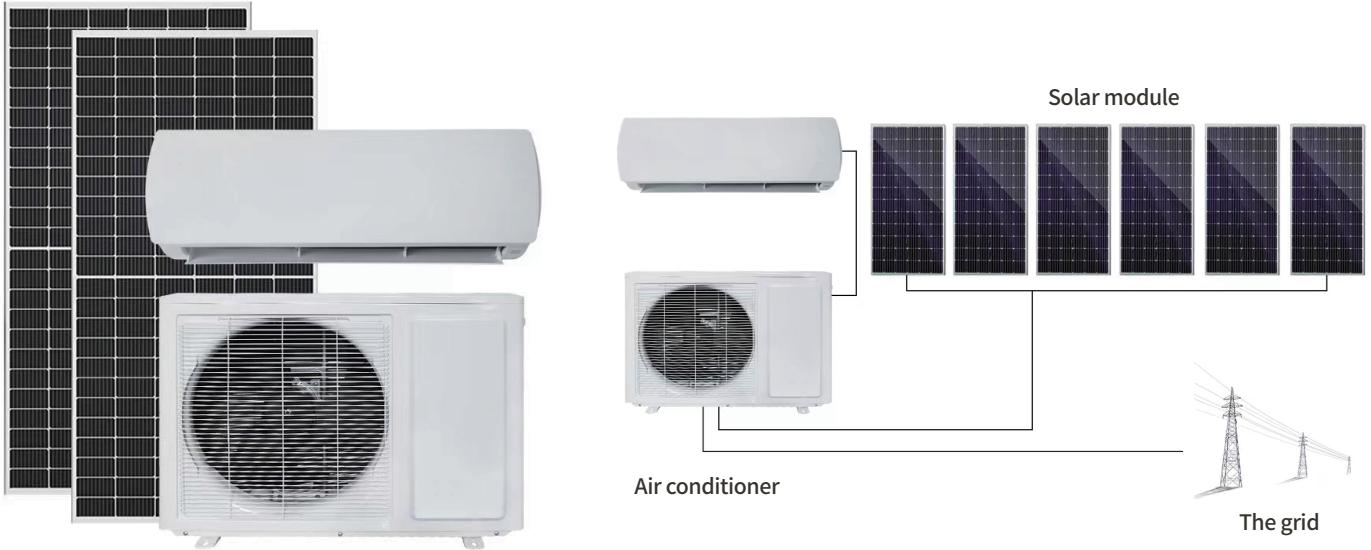
Keep the environment quiet and comfortable.



Strainer

Effectively prevents dust from entering, easy to remove and wash.

AC DC hybrid on grid solar air conditioner



SPECIFICATIONS:

ACDC on grid DC Solar Air-Conditioner							
		Ton	0.75ton	1ton	1.5ton	1.8ton	2ton
		HP	1HP	1.5HP	2HP	2.5HP	3HP
Performance							
Capacity	Cooling	Btu/h	9000	12000	18000	20000	24000
		W	2600	3500	5200	6000	7200
	Heating	Btu/h	10000	13000	20000	22000	27000
		W	2800	3700	5400	660	7900
Noise	Indoor	dB(A)	≤40	≤42	≤44	≤45	≤46
	Outdoor	dB(A)	≤50	≤52	≤55	≤56	≤58
Air Circulation		m ³ /h	450	550	750	850	1050
Suitable Area		m ²	10~15	12~25	20~35	22~40	25~45
	EER	WW	4.5	4.5	4.5	4.5	4.4
	SEER	Btu/h/w	34	34	34	34	33
	HSPF	Btu/h/w	5.8	6	4.9	4.9	4.8
Operating Range		C/F	16C-31C/5F-122F				
Design pressure		PSI	550 / 340				
Refrigerant Oil			VG74				
Refrigerant			R410A				
Compressor			SANYO DC INVERTER COMPRESSOR(ROTAY)				
Liquid side/ Gas side			1/4"/3/8"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"
DC Connection /Wire			MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12
Power Consumption							
Rated Power Input		W	0-550	0-700	0-950	0-1150	0-1350
Rated Current		A	0-2.54	0-3.82	0-4.32	0-5.612	0-5.68
Dimension							
Indoor Unit	NET	mm	775*260*210	775*260*210	990*320*210	990*320*210	990*320*210
	Shipping	mm	840*325*265	840*325*265	1070*395*285	1070*395*285	1070*395*285
Outdoor Unit	NET	mm	790*260*540	790*260*540	850*300*700	850*300*700	850*300*700
	Shipping	mm	910*370*610	910*370*610	950*400*750	950*400*750	950*400*750
Weight							
Indoor Unit	Net/Gross	kg	11/13	13/15	17/19	19/21	19/21
Outdoor Unit	Net/Gross	kg	38/40	45/48	48/55	56/62	56/62
Solar panels requirement	Optional		4x300W/36V	6x300W/36V	6x300W/36V	8x330W/36V	8x350W/36V

AC DC hybrid on grid inverter air conditioner

SPECIFICATIONS:

ACDC on grid DC inverter type Solar Air-Conditioner							
		Ton	0.75ton	1ton	1.5ton	1.8ton	2ton
		HP	1HP	1.5HP	2HP	2.5HP	3HP
Performance							
Capacity	Cooling	Btu/h	9000	12000	18000	20000	24000
		W	2600	3500	5200	6000	7200
	Heating	Btu/h	10000	13000	20000	22000	27000
		W	2800	3700	5400	660	7900
Noise	Indoor	dB(A)	≤40	≤42	≤44	≤45	≤46
	Outdoor	dB(A)	≤50	≤52	≤55	≤56	≤58
Air Circulation		m³/h	450	550	750	850	1050
Suitable Area		m²	10-15	12-25	20-35	22-40	25-45
	EER	W/W	4.5	4.5	4.5	4.5	4.4
	SEER	Btu/h/w	34	34	34	34	33
	HSPF	Btu/h/w	5.8	6	4.9	4.9	4.8
Operating Range		C/F	16C-31C/5F-122F				
Design pressure		PSI	550 / 340				
Refrigerant Oil			VG74				
Refrigerant			R410A				
Compressor			SANYO DC INVERTER COMPRESSOR(ROTAY)				
Liquid side/ Gas side			1/4"/3/8"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"	1/4" / 1/2"
DC Connection /Wire			MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12	MC4/AWG 10/12
Power Consumption							
Rated Power Input		W	0-550	0-700	0-950	0-1150	0-1350
Rated Current		A	0-2.54	0-3.82	0-4.32	0-5.612	0-5.68
Dimension							
Indoor Unit	NET	mm	775*260*210	775*260*210	990*320*210	990*320*210	990*320*210
	Shipping	mm	840*325*265	840*325*265	1070*395*285	1070*395*285	1070*395*285
Outdoor Unit	NET	mm	790*260*540	790*260*540	850*300*700	850*300*700	850*300*700
	Shipping	mm	910*370*610	910*370*610	950*400*750	950*400*750	950*400*750
Weight							
Indoor Unit	Net/Gross	kg	11/13	13/15	17/19	19/21	19/21
Outdoor Unit	Net/Gross	kg	38/40	45/48	48/55	56/62	56/62

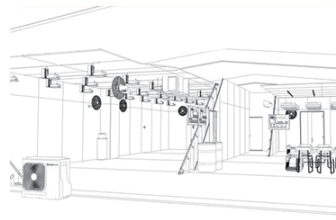
APPLICATION



Agricultural experimental base



Home use



Vertical agriculture, indoor greenhouse



Hospital & nursing home

ACDC on grid DC Solar Air-Conditioner

FEATURES

The Hybrid ACDC Solar Air Conditioner does not require any battery, and just need a few solar panels to deliver huge saving. During the sunshine day, when air conditioner is needed at the most, you can operate this unit up to 100% by solar panels. When night comes, you continue to save > SEER 21 rating on this unit.



High efficiency brushless inverter permanent-magnet compressor



0.1Hz low frequency running, low power consumption



R410a environment protection refrigerant



Indoor unit noise level low to 26 dB



30s fast cooling/1 min powerful heating



Built-in MPPT, maximum utilizes the solar power during the day

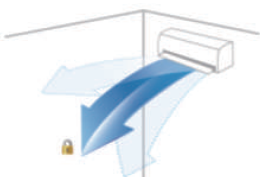


Super wide operating temp. range: -10°C~52°C



Solar panel connection on outdoor unit: Easy installation and maintenance, Plug & Run

OTHER FEATURES



Advanced variable angels air flow design, increased air flow volume and distribution, more comfortable. The longdistance air distribution design can cool/heat the room quickly.



High strength zinc coated material, strictly anticorrosion process treatment. Even installed at seaside places, still has longer lifetime than the regular air conditioner.

ACDC on grid DC Solar Air-Conditioner



Multi-layer air filter, good for your health.



The ACDC Hybrid Solar Air Conditioner installation is very simple and convenient, similar like the regular air conditioner, connect with the solar panels after installed, plug & run.



Press the "ECO" on the remote controller, the air conditioner instantly enters into ECO energy saving mode without fussy setting and operate.



Press the "ECO" on the remote controller, the air conditioner instantly enters into ECO energy saving mode without fussy setting and operate.



Outdoor main board reverse installation design, better anti-fungus, better duct and wind prevention, especially suitable for GCC countries.



Intelligent design Mobile APP control, terminal centralized control, uniform management, more energy saving and convenient.

Wall Mounted Type Hybrid Solar

PRODUCT FEATURES

1. High Efficiency
2. Fashion and Elegant Design
3. LED Display
4. Quiet Running
5. 5. Toshiba, Hitachi, Panasonic Compressor.
6. Bule Coating Heat Exchanger
7. 100% Copper Connection Pipes With Insulation
8. Enviornmently Friendly Gas R410A
9. 30 to 70% energy saving



World-famous compressor



Double-muting technology



Ultra-strong EMC



Set his mind at to sleep



Model No.							
			1HP	1.5HP	2HP	2.5HP	3HP
			0.75TON	1TON	1.5TON	1.8TON	2TON
power Supply : 220-240VAC, 1PH, 50/60Hz							
Performance							
Capacity	Cooling	Btu/h	9000	12000	18000	20000	24000
		W	2600	3500	5200	6000	7200
	Heating	Btu/h	10000	13000	20000	22000	27000
		W	2900	3800	6000	6600	7900
Noise	Indoor	dB(A)	≤40	≤42	≤44	≤46	≤50
	Outdoor	dB(A)	≤50	≤52	≤54	≤56	≤58
Air Circulation		m³/h	500	550	800	850	1150
Suitable Area		m²	11-17	15-23	26-36	25-42	30-48
EER		W/W	3.84	3.89	3.83	3.88	3.82
		Btu/h/w	12.42	13.27	13.07	13.24	13.03
Power Consumption							
Power Input	Cooling	W	650-770	800-1025	1100-1300	1350-1560	1700-1900
	Heating	W	650-780	800-1050	1150-1350	1350-1590	1700-1950
Rated Current	Cooling	A	3.00-3.60	3.70-4.80	6.30-7.30	6.30-7.30	8.00-8.90
	Heating	A	3.00-3.65	3.70-4.90	6.30-7.50	6.30-7.50	8.00-8.90
Vacuum Tube	Diameter*Length*Pcs		47mm*520mm*10	47mm*520mm*10	47mm*620mm*11	47mm*620mm*11	47mm*620mm*11
Flat plate solar collector	WXDXH		800x500x80mm	800x500x80mm	900x500x80mm	900x500x80mm	900x500x80mm
Dimensions							
Indoor Unit	Net	mm	775*265*210	775*265*210	985*300*220	985*300*220	985*300*220
	Shipping	mm	840*325*265	840*325*265	1080*380*300	1080*380*300	1080*380*300
Outdoor Unit	Net	mm	790*260*540	790*260*540	850*290*580	850*290*580	865*310*710
	Shipping	mm	910*370*610	910*370*610	995*390*680	995*390*680	1025*395*790
Water Tank	Shipping	mm	910*400*330	910*400*330	980*400*370	980*400*370	980*400*370
Vacuum Tube	Shipping	mm	910*400*330	910*400*330	980*400*370	980*400*370	980*400*370
Flat plate solar collector	Shipping	mm	900x550x90mm	900x550x90mm	950x550x90mm	950x550x90mm	950x550x90mm
Weight							
Indoor Unit	Net/Gross	kg	9/10.5	9/10.5	16/17.5	16/17.5	20/22
Outdoor Unit	Net/Gross	kg	31/34	31/34	50/52	50/52	55/58
Solar Collector	Net/Gross	kg	13/15	13/15	16/17	16/17	16/17
Loading Qty	in 20feet	sets	75	75	65	65	55
	40HQ	sets	175	175	135	135	125

REMARKS:

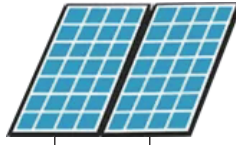
Parameters in the form are measured in the rated working state : when cooling, outdoor unit dry/wet-bulb temp 35/24C, indoor unit dry/wet-bulb 27/19C; when heating, outdoor unit dry/wet-bulb temp 7/6C, indoor unit dry/wet-bulb 20/15°, changes may appear according to real working state.

DC24V Portable Solar Air-Conditioner

SPECIFICATIONS:



2pcs 260w solar panels



Solar DC →

Flexible to increase PV Solar Panels according to demand

The controller



← 24 DC

24V Battery Bank

DC24V Portable solar air-conditioner



DC24V Portable Solar Air-Conditioner					
Power Supply: 24VDC (21V to 30V)					
Performance					
Capacity	Cooling	Btu/h	7000	9000	12000
		W	1800	2600	3500
	Heating	Btu/h	8000	10000	13000
		W	1900	2800	3800
	Noise	dB(A)	≤42	≤44	≤46
	Air Circulation	m³/h	400	400	500
	Suitable Area	m²	6~8	8~10	10~15
EER		W/W	4.50	5.20	5.00
		Btu/h/w	15.39	15.79	15.79
Refrigerant			R-134A	R-134A	R-134A
Compressor	Panasonic DC 24V				
Power Consumption					
	Rated Power Input	W	400	500	700
	Rated Current	A	14.5	22	30
	Input Power range	V	DC 21-30	DC 21-30	DC 21-30
Dimension					
Unit	Shipping	mm	350x350x756	350x350x756	350x350x756
	NET	mm	550x398x788	550x398x788	550x398x788



Solar cabel & accessories

ACCESSORIES



solar Cable
4 mm²: PVC insulated,
single core, Red Meters 20
4 mm²: PVC insulated,
single core, Black Meters 20



battery cable with connectors
25 mm²: PVC insulated,
single core, Red Meters 50CM
other cables to solar inverter,
controller
MC4 connector



Remote control



remote battery



Instruction book



Copper pipe



Tape



Adhesive cement



Drainage pipe



Plastic Anchor