

Solar Air Conditioner



ACDC HYBRID



DC Inverter



WIFI control

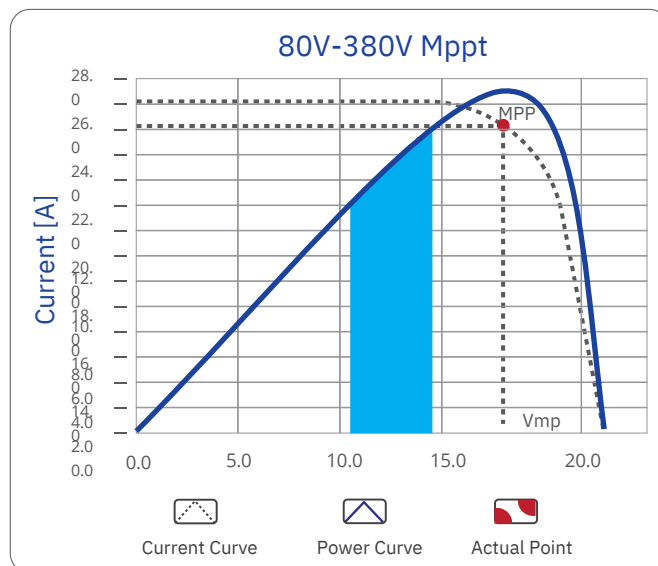


Hybrid Solar

Solar AC technology

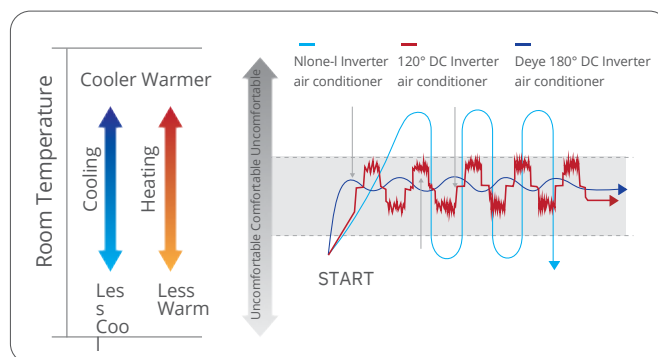
Build in Solar MPPT

-  Intelligent control for detection and adjustment
-  Efficiency:99.9%
-  DC to DC 0 convert lose
-  10+ years life design



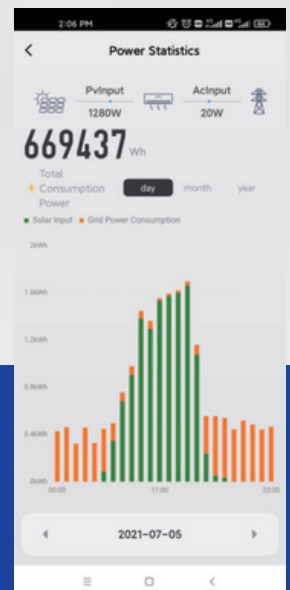
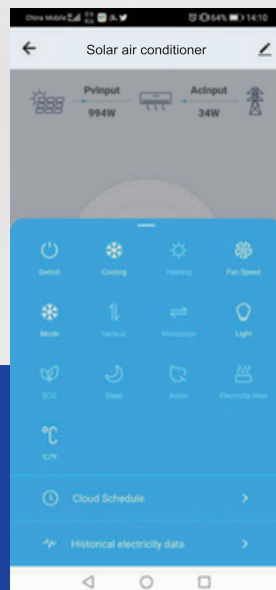
SVPWM technology

-  180° sine wave controller technology
-  Compressor ran below 0.1Hz
-  Operate during 50% voltage drop



Solar AC advantage

ITEM	Hybrid Solar AC	Conventional Inverter
AC Power supply(220V 50/60HZ)	Y	Y
DC Power supply(80VDC-380VDC)	Y	N
AC+DC Mix Power	Y	N
No electricity works	Y	N
App smart control	Y	Depends
App smart power meter	Y	N
Soft power start	Y	N
Average Energy saving	60-100%	20%



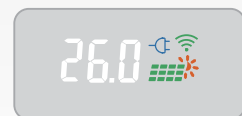
Key components



Brushless DC fan motor



Twin Rotary DC Compressor



Intelligent Grid Indicator

WiFi Smart Control



Designed for end-user



Monitor unit make energy saving visible



Easy setting



Convenient & long range remote control



Technical Specifications

Tropical Applicable



ACDC R32

Items			Unit	9000BTU	12000BTU	18000BTU	24000BTU
Mode			/	JBL-AC-9K-HYB-R32 208V-240V/50-60HZ	JBL-AC-12K-HYB-R32 208V-240V/50-60HZ	JBL-AC-18K-HYB-R32 208V-240V/50-60HZ 80-380V	JBL-AC-24K-HYB-R32 208V-240V/50-60HZ
Power supply	Power AC	Ph-V-Hz					
	Power DC, PV, series connection	Voc		80-380V	80-380V	<=14A	150-380V
		Isc		<=14A	<=14A		<= 20A
Rated Cooling		W		2700(800-3400)	3500(800-3800)	5010(1200-6150)	7000(1800-7500)
	Capacity(T1)	BTU		9000(2700-11600)	12000(2700-13000)	17000 (4100-20900)	24000 (6100-25600)
	Power input(T1)	W		680(150-1030)	1050(150-1330)	1350(220-2060)	2100(300-2600)
	Capacity(T3)	W		2350	2850	4290	5130
		BTU		8000	9700	14700	17500
Rated Heating	Power input(T3)	W		890	1100	1630	1940
	Capacity	W		3100(900-3900)	3900(900-4200)	5150(1200-5300)	7000(1800-7300)
		BTU		10600(3070-13300)	13300(3070-14300)	(4100-18000)17500	24000(6100-24900)
	Power input	W		730(150-1150)	1080(150-1300)	1260(220-1450)	2030(300-2150)
T1 EER (W/W)/ (BTU/W)			/	3.95/13.20	3.35/11.40	3.71/12.59	3.33/11.43
T3 EER (W/W)/ (BTU/W)			/	2.65/8.95	/	2.65/9.00	2.65/9.00
COP (W/W)/ (BTU/W)			/	4.25/14.50	3.60/12.30	4.08/13.89	3.45/11.82
Max Power Input			W	1400	1700	2500	3500
Dehumidification capacity			L/h	1	1.3	1.7	2.5
Compressor	Model	/		KSK103D33UEZ3	KSK103D33UEZ3	WHP05600AUKQA8JT6	5RD198ZAD21
	Type	/		ROTARY	ROTARY	2xROTARY	2xROTARY
	Brand	W		GMCC	GMCC	HIGHLY	Panasonic
	Capacity	/		3255	3255	4285	5780
	Thermal protector	/		NO	NO	NO	NO
	Thermal protector position	/		NO	NO	INTERNAL	INTERNAL
	Capacitor	uF		/	/	NO	NO
	Refrigerant/oil charge	ml		/	/	a68HES-H / 480	FV50S/600
Indoor fan motor	Model	W		ESTER OIL VG74 / 280	ESTER OIL VG74 / 280	ZWR45-C51	ZWR45-C51
	Output	/		ZWR15-Q52	ZWR15-Q52	45	45
	Brand	uF		15	15	KAIBANG	KAIBANG
	Capacitor	r/min		KAIBANG	KAIBANG	KAIBANG	KAIBANG
	Speed(Turbo/Hi/Mi/Lo)	/		---	---	---	---
Indoor coil	a.Number of rows	mm		1300/1200/1000/850	1300/1200/1000/850	1150/1050/950/850	1350/1200/1050/900
	b.Tube pitch(a)x row pitch(b)	mm		2	2	2	2
	c.Fin spacing	mm		21x13.37	21x13.37	21x13.37	21x13.37
	d.Fin type (code)	/		1.3	1.3	1.3	1.3
	e.Tube outside dia and type	mm		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	f.Coil length x height x width	mm		Φ7, innergroove tube	Φ7, innergroove tube	Φ7, innergroove tube	Φ7, innergroove tube
	g.Number of circuits	/		650×345×26.74	650×345×26.74	880x380x26.74	880x380x26.74
Indoor air flow(Turbo/Hi/Mi/Lo)			m3/h	2	2	5	5
Indoor noise level (Turbo)			dB(A)	650/600/470/370	650/600/470/370	980/850/750/640	1100/1000/850/680
			mm	≤42.5	≤42.5	≤46	≤50
Indoor unit	Dimension(W×H×D)	mm		840×205×295	840×205×295	1080×330×237	1140×330×382
	Packing (W×H×D)	kg		920×290×360	920×290×360	1140×300×382	15.0/17.5
	Net weight/ Gross weight	/		9.5/11.8	9.5/11.8	15.0/17.5	BLDC ZWB278L56A
Outdoor fan motor	Model	W		BLDC ZWR35-A51	BLDC ZWR35-A51	BLDC ZWR55W-A51	WOLONG
	Brand	uF		KAIBANG	KAIBANG	KAIBANG	75
	Input	r/min		40	40	55	NO
	Capacitor	/		NO	NO	NO	850
	Speed			800	850	880	





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Tropical Applicable



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Mode		/	JBL-AC-9K-HYB-R32	JBL-AC-12K-HYB-R32	JBL-AC-18K-HYB-R32	JBL-AC-24K-HYB-R32
Outdoor coil	a.Number of rows	/	1	1	2	2
	b.Tube pitch(a)x row pitch(b)	mm	21×22	21×22	21×22	21×22
	c.Fin spacing	mm	1.5	1.5	1.5	1.3
	d.Fin type (code)	/	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tubeoutsidedia. and type	mm	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube	Φ7,innergroove tube
	f.Coil length x height x width	mm	865x504x22 (24)	865x504x22 (24)	865x504x44 (24)	855x660x44 (30)
	g.Number of circuits	/	2	2	4	5
Outdoor air flow		m3/h	2000	2200	2200	3300
Outdoor noise level		dB(A)	≤51	≤52	≤55	≤58
Outdoor unit	(Dimension(W×H×D)	mm	802×564×323	802×564×323	802×564×323	900×700×337
	(Packing (W×H×D)	mm	910×622×405	910×622×405	910×622×405	1006×755×418
	Net/Gross weight	kg	30.0/34.0	30.0/34.0	35.5/40.0	46.0/51.0
Refrigerant type and charge volume		g	R32(850)	R32(850)	R32(1300)	R32(1600)
(Max Design pressure (Discharge/Suction)		MPa	4.3/1.5	4.3/1.5	4.3/1.5	4.3/1.5
Refrigerant piping	(Gasside/Liquidside(inch)	inch	3/8 1/4	3/8 1/4	3/8 1/4	3/8 1/4
	Max.refrigerantpipe length	m	15	15	20	25
	Max. difference in level	m	8	8	10	10
Drain pipe size		mm	16	16	16	16
Refrigerant pipinglength		m	3	3	4	4
Connection wiring		m	4	4	5	5
Expansion valve type		/	capillary	capillary	DPF Q01 16C 112	TS118C55
Expansion valve type Brand		/	2.5*1.5*1000mm	2.5*1.5*1000mm	SANHUA	SANHUA
Operation temp		°C	°C16~°C32	°C16~°C32	°C16~°C32	°C16~°C32
Ambient temp (cooling/heating)		°C	16-55/-7-31	16-55/-7-31	16-55/-7-31	16-55/-7-31
Application area		m2	8-15	12-20	20-30	30-40



100% Eco

Up to 100% Savingin day time



Grid AC Power Limiter

Limit AC power from 0-300W



Savings

No Inverter battery,or Charger controller needed



Wide Operating Temperature

Temperature Range between -10 to +60°C



Max Efficiency

DC-driven



Auto Balance

AC/DC auto balance

