

### Specifications for Off Grid Solar Air Conditioner DC48V

Capacity		9000BTU	12000BTU	18000BTU	24000BTU	
Climate Type	Tropical</= 58°C	T1/T3				
Application area	m2	8-12	12-20	20-30	30-40	
Power supply	Battery	DC48V(46~58V)				
Rated Cooling	Capacity(T1)	W	2600(1000-3400)	3510(1000-3700)	5070(1200-5250)	6450(2500-7000)
		BTU	9000(3400-11600)	12000(3400-12600)	17300(4100-18000)	22000(8500-23900)
	Power input(T1)	W	680(180-1060)	980(200-1200)	1450(220-1780)	1840(450-2230)
		BTU	2490	2910	4200	5370
	Capacity(T3)	BTU	8500	9900	14300	18300
Rated Heating	Capacity	W	960	1090	1660	2200
		BTU	2900(800-3050)	3900(1000-4100)	5250(1200-5500)	7000(2000-7350)
	Power input	W	9900(2700-10400)	13300(3400-14000)	18000(4100-18700)	24000(10200-25000)
T1 EER (W/W)/(BTU/W)		3.90/13.20	3.60/12.25	3.50/11.8	3.50/11.85	
T3 EER (W/W)/(BTU/W)		2.60/8.90	2.65/9.05	2.55/8.60	2.45/8.30	
COP (W/W)/(BTU/W)		3.50/11.90	3.45/11.75	3.75/12.80	3.40/11.70	
Dehumidification capacity	L/h	1.0	1.3	1.7	2.5	
Compressor	Model	ASK89D53UEZ	ASN98D22UFZ	WHP05600	5RD198	
	Type	Rotary Inverter		2xRotary Inverter		
	Brand	GMCC		HIGHLY	Panasonic	
Indoor fan motor	Model	BLDC 15W		BLDC 45W		
	Speed(Turbo/Hi/Mi/Lo)	r/min	1200/1100/1000/850	1300/1200/1100/950	1050/950/850/750	1350/1250/1150/1000
Indoor air flow(Turbo/Hi/Mi/Lo)	m3/h	485/435/380/305	540/485/435/350	980/880/740/620	1290/1180/1070/900	
Indoor noise level (Turbo)	dB(A)	≤40	≤42.5	≤46	≤50	
Indoor unit	Dimension(W×H×D)	mm	840×205×295		1080×330×237	
	Packing (W×H×D)		920×290×360		1140×300×382	
	N.Weight/G.Weight	Kg	9.0/12.5		15.0/18.5	
Outdoor fan motor	Model	BLDC 40W		BLDC 55W	BLDC 75W	
	Speed	r/min	880		850	
Outdoor coil	a.Number of rows	1		2		
	e.Tube outside dia.and t	mm	Φ7,innergroove tube		Φ9.52,innergroove tube	
Outdoor air flow	m3/h	2000	2100	2200	3300	
Outdoor noise level	dB(A)	≤51	≤52	≤55	≤58	
Outdoor unit	Dimension(W×H×D)	mm/inch	802×564×323/ 32" * 22" * 13"			900×700×337/35*28*13
	Packing (W×H×D)		910×622×405/ 36" * 25" * 16"			1006×755×418/40*30*17
	Net/Gross weight	lb	62/71	71/79	79/88	112/123
Refrigerant type		R410a				
Max Design pressure (Discharge/Suction)	MPa	4.3/1.5			4.3/1.1	
Refrigerant	Gas side/Liquid side (in	inch	3/8 1/4		1/2 1/4	
	Max. refrigerant pipe le		15		20	25

Max. difference in level	m	8	10
Drain pipe size	mm	16	
Refrigerant piping length	m	3	4
Connection wiring		4	5
Electrical Expansion Valve	Yes		