



### Core Technology:

- 1、 100% DC operation
- 2、 operating temperature range: -10°C to +58°C
- 3、 46V Low voltage protection: prevent battery overdischarge
- 4、 Double rotary inverter compressor
- 5、 3 stage Limited energy consumption
- 6、 R410A friendly refrigerant

### T1/T3 DC48V Solar Air Conditioner

Model			DGWA1-DC48V-09K	DGWA1-DC48V-12K	DGWA1-DC48V-18K	DGWA1-DC48V-24K
Climate Type	Tropical<math>\leq 58^{\circ}\text{C}</math>		T1/T3	T1/T3	T1/T3	T1/T3
Application area		m <sup>2</sup>	8-12	12-20	20-30	30-40
Power supply	Battery	DC	DC48V(46~58V)	DC48V(46~58V)	DC48V(46~58V)	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)
	Capacity(T3)	W	2490	2910	4200	5370
		BTU	8500	9900	14300	18300
Power input(T3)	W	960	1090	1660	2200	
Rated Heating	Capacity	W	2900(800-3050)	3900(1000-4100)	5250(1200-5500)	7000(2000-7350)
		BTU	9900(2700-10400)	13300(3400-14000)	18000(4100-18700)	24000(10200-25000)
Power input	W	830(160-950)	1130(180-1280)	1400(220-1830)	2050(390-2350)	
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	ROTARY	2xROTARY	2xROTARY
	Brand	/	GMCC	GMCC	HIGHLY	Panasonic
Indoor fan motor	Model	/	BLDC 15W	BLDC 15W	BLDC 45W	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)	m <sup>3</sup> /h		485/435/380/305	540/485/435/350	980/880/740/620	1290/1180/1070/900
Indoor noise level (Turbo)	dB(A)		$\leq 40$	$\leq 42.5$	$\leq 46$	$\leq 50$
Indoor unit	Dimension(WxHxD)	mm	840x205x295	840x205x295	1080x330x237	1080x330x237
	Packing (WxHxD)	mm	920x290x360	920x290x360	1140x300x382	1140x300x382
	Net weight/Gross weight	Kg	9.0/12.5	9.0/12.5	15.0/18.5	15.0/18.5
Outdoor fan motor	Model	/	BLDC 40W	BLDC 40W	BLDC 55W	BLDC 75W
	Speed	r/min	880	880	880	850
Outdoor coil	a.Number of rows	/	1	2	2	2
	e.Tube outside dia.and type	mm	$\Phi 7$ ,innergroove tube	$\Phi 7$ ,innergroove tube	$\Phi 9.52$ ,innergroove tube	$\Phi 9.52$ ,innergroove tube
Outdoor air flow	m <sup>3</sup> /h		2000	2100	2200	3300
Outdoor noise level	dB(A)		$\leq 51$	$\leq 52$	$\leq 55$	$\leq 58$
Outdoor unit	Dimension(WxHxD)	mm	802x564x323	802x564x323	802x564x323	900x700x337
	Packing (WxHxD)	mm	910x622x405	910x622x405	910x622x405	1006x755x418
	Net/Gross weight	Kg	28.0/32.0	32.0/36.0	36.0/40.0	51/56
Refrigerant type	/		R410a	R410a	R410a	R410a
Max Design pressure (Discharge/Suction)	MPa		4.3/1.5	4.3/1.5	4.3/1.5	4.3/1.1
Refrigerant piping	Gas side/Liquid side (inch)	inch	3/8 1/4	3/8 1/4	1/2 1/4	1/2 1/4
	Max. refrigerant pipe 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
Electrical Expansion Valve			Yes	Yes	Yes	Yes
Loading QTY 40" Hq/ 20"GP	Sets		200/85	200/85	160/75	115/50