Hybrid AC/DC Solar Air Conditioner

- 100% energy saving in day time. Only solar panel drive.
- AC grid power limiter, limit AC power from 0-600W
- AC power mode, DC power mode, AC+DC mix power supply (AC/DC Auto Balance)
- No inverter, no battery, no charge controller
- Full DC driven
- Wide operating temperature (-10℃ to 58 ℃)

T3/T1 Hybrid ACDC Solar Air Conditioner					
Model	**Unit**		**DGA2-ACDCBLW-12K**	**DGA1-ACDCBLW-18K**	**DGA1-ACDCBLW-24K**
Climate Type	Tropical</= 58℃		T3/T1	T3/T1	T3/T1
Application area		m2	12-20	20-30	30-42
Power Supply	AC Power	Ph-V-Hz	1Ph 208V-240V/50-60HZ	1Ph 208V-240V/50-60HZ	1Ph 208V-240V/50-60HZ
	DC Power (PV in Series)	V	80-380V	80-380V	80-380V
	DC Power Current	A	</=10A	</=10A	</=10A
Adviced Solar Panel		Pcs	(3-4)*330W in series	(3-6)*330W in series	(3-8)*330W in series
Rated Cooling	Capacity(T1)	W	3510(900-3900)	5070(1200-6000)	6450(1800-7900)
		BTU	12000(3000-13300)	17300(4100-20400)	22000(6100-27000)
	Power input(T1)	W	940(190-1270)	1400(220-2100)	1790(300-3200)
	Capacity(T3)	W	2910	4290	5130
		BTU	9900	14700	17500
	Power input(T3)	W	1050	1630	1940

Model	Unit		DGA2-ACDCBLW-12K	DGA1-ACDCBLW-18K	DGA1-ACDCBLW-24K
Rated Heating	Capacity	W	4100(1000-4500)	6100(1200-6800)	7800(1800-9100)
		BTU	14000(3000-15300)	20800(4100-23000)	26600(6100-31000)
	Power input	W	1170(190-1700)	1770(220-2500)	2290(300-3500)
T1 EER (W/W)/ (BTU/W)		/	3.75/12.75	3.60/12.35	3.60/12.30
T3 EER (W/W)/ (BTU/W)		/	2.75/9.45	2.65/9.00	2.65/9.00
COP (W/W)/ (BTU/W)		/	3.50/11.95	3.45/11.75	3.40/11.60
Dehumidification capacity		L/h	1.3	1.7	2.5
Compressor	Model	/	WHP04200	WHP05600	5RD198
	Type	/	2xRotary Inverter	2xRotary Inverter	2xRotary Inverter
	Brand	/	Highly	Highly	Panasonic
Indoor fan motor	Model		BLDC-15W	BLDC-45W	BLDC-45W
	Speed(Turbo/Hi/Mi/Lo)	r/min	1300/1200/1100/950	1050/950/850/750	1350/1250/1150/1000
Indoor air flow(Turbo/Hi/Mi/Lo)		m3/h	540/485/435/350	980/880/740/620	1290/1180/1070/900
Indoor noise level (Turbo)		dB(A)	≤42.5	≤46	≤50
Indoor unit	Dimension(W×H×D)	mm	840×205×295	1080×330×237	1080×330×237
	Packing (W×H×D)	mm	920×290×360	1140×300×382	1140×300×382
	Net weight/Gross weight	Kg	9.0/12.5	15.0/18.5	15.0/18.5
Outdoor fan motor	Model	/	BLDC-40W	BLDC-55W	BLDC-75W
	Speed	r/min	880	880	850
Outdoor air flow		m3/h	2100	2200	3300

Model	Unit		DGA2-ACDCBLW-12K	DGA1-ACDCBLW-18K	DGA1-ACDCBLW-24K
Outdoor noise level		dB(A)	≤52	≤55	≤58
Outdoor unit	Dimension(W×H×D)	mm	802×564×323	802×564×323	900×700×337
	Packing (W×H×D)	mm	910×622×405	910×622×405	1006×755×418
	Net/Gross weight	Kg	33.5/37.5	37/42.0	50/54.5
Refrigerant type		/	R410A	R410A	R410A
Max Design pressure		MPa	4.3/1.5	4.3/1.5	4.3/1.5
Refrigerant copper pipe	Gas side/Liquid side (inch)	inch	3/8 1/4	1/2 1/4	1/2 1/4
	Max. refrigerant pipe length	m	15	20	25
	Max. difference in level	m	8	10	10
Drain pipe size		mm	16	16	16
Refrigerant connction copper pipe length		m	3	4	4
Connection wire length		m	4	5	5
Electronic Expansion Valve		/	Yes	Yes	Yes
Loading QTY 40" Hq/ 20"GP		Sets	200/85	160/75	115/50