

MERKUR[®]
CLIMATISATION

SUNBOOST[®] Series
MERKUR Solar On-Grid Air-Con



MERKUR[®]
GERMAN TECHNOLOGY

SUNBOOST® Series Solar On-Grid Air-Cons



SUNBOOST® Series MERKUR Solar On-Grid Air-Con

MERKUR's latest technology of converting solar energy to power supply of air conditioner, making your home more comfortable with less power consumption.

- Based on PV (Photovoltaic) power generating tech
- Energy saving up to 97%
- Unique PSCM (Power Supply Control Module)
- Max power input from PV panels is 1000 W
- Almost no Grid-Power required during the day
- Automatic switching form Solar-Power to Grid-Power at night or during bad weather
- Capable to provide the solar power to the grid in case off overproduction (optional!)
- Input Voltage below 40V DC and 90 VAC - 260 VAC; 230VAC, 50 Hz and 60 Hz
- Integrated a high efficiency and high quality Panasonic compressor
- Remote control and easy installation
- Cooling Mode, optional Cooling & Heating Mode
- Refrigerant R410a/R22
- CE, ROHS and SAA certification
- Can run smoothly at temperatures from -10 °C to 55 °C
- Simple operation and convenient
- Operating at low noise
- Auto Protection capability in case of malfunction and Auto Restart function

SUNBOOST® Series Solar On-Grid Air-Cons

Model			LGS-37HX/OI	LGS-46HX/OI	LGS-63HX/OI	LGS-83HX/OI
			1HP	1.5HP	2HP	3HP
Capacity	Cooling	Btu/h	9000	12000	18000	24000
	Heating	W	2600	3500	5200	7200
	Indoor	Btu/h	10000	13000	20000	27000
	Outdoor	W	2800	3700	5400	7900
Noise	Indoor	db(A)	≤ 40	≤ 42	≤ 44	≤ 46
	Outdoor	db(A)	≤ 50	≤ 52	≤ 55	≤ 58
Air Circulation		m³/h	450	550	750	1050
Suitable Area		m²	10~15	12~25	20~35	25~45
EER		W/W	5.2	4.7	4.5	4.4
SEER		Btu/h/w	35	34	34	33
HSPF		Btu/h/w	12	12	13	14
Operating temperature cooling	Indoor	°C	above 17°C	above 17°C	above 17°C	above 17°C
Operating temperature cooling	Outdoor	°C	18°C to 50°C	18°C to 50°C	18°C to 50°C	18°C to 50°C
Operating temperature heating	Indoor	°C	below 31°C	below 31°C	below 31°C	below 31°C
Operating temperature heating	Outdoor	°C	-7°C to +24°C	-7°C to +24°C	-7°C to +24°C	-7°C to +24°C
Design pressure		PSI	550/340	550/340	550/340	550/340
Refrigerant			R410A	R410A	R410A	R410A
Compressor			PANASONIC (ROTAY)			
Liquid side/ Gas side			1/4" / 3/8"	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
Power Consumption						
Rated AC Voltage		V	190 to 260/50-60Hz	190 to 260/50-60Hz	190 to 260/50-60Hz	190 to 260/50-60Hz
Rated Power Input		W	450	750	950	1250
Rated Current		A	2,05	3,41	4,32	5,68
Rated DC Voltage		V	23-40	23-40	23-40	23-40
Rated Power DC Input		W	1000	1000	1000	1000
Rated DC Current		A	60	60	60	60
Dimensions						
Indoor Unit	Net	mm	775*260*210	775*260*210	990*320*210	990*320*210
	Shipping	mm	840*325*265	840*325*265	1070*395*285	1070*395*285
Outdoor Unit	Net	mm	790*260*540	790*260*540	850*300*700	850*300*700
	Shipping	mm	910*370*610	910*370*610	950*400*750	950*400*750
Weight						
Indoor Unit	Net/Gross	kg	11/13	13/15	17/19	19/21
Outdoor Unit	Net/Gross	kg	38/40	45/48	48/55	56/62

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