

**MERKUR**<sup>®</sup>  
CLIMATISATION

SOLMATE<sup>®</sup> Series  
Solar Air-Cons 48V DC



**MERKUR**<sup>®</sup>  
GERMAN TECHNOLOGY

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# SOLMATE® Series Solar Air-Cons 48V DC



## SOLMATE® series MERKUR 100% Solar Air Conditioners 48V DC

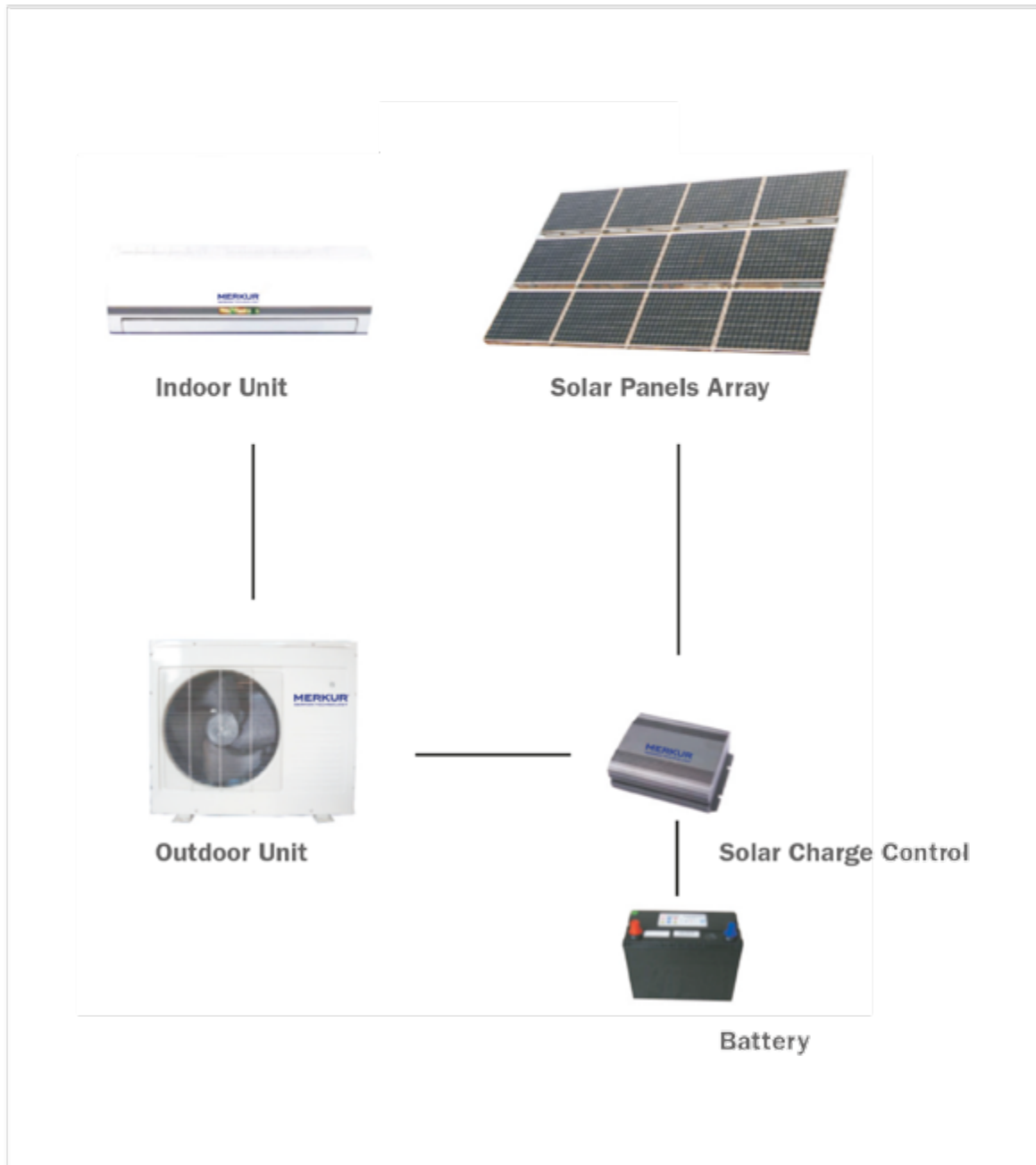
- State of the art 48V DC compressors operate powerfully and smoothly and with low loads, which results in very long life time
- Noise reduction achieved by application of off-center blade technology and foam air ducts

Optional heating function makes our Air-Con an ideal application for back up heating during the cold season coming at a lesser cost than direct electric heating from grid power

- Microcomputer enhanced performance
- Remote control or touch panel operation

# SOLMATE® Series Solar Air-Cons 48V DC

## The elements



# SOLMATE® Series Solar Air-Cons 48V DC



Indoor Unit



Outdoor Unit

SOLMATE® series  
MERKUR 100% Solar Air Conditioners  
48V DC

**MERKUR®** German Technology SOLAR Air-Cons are:

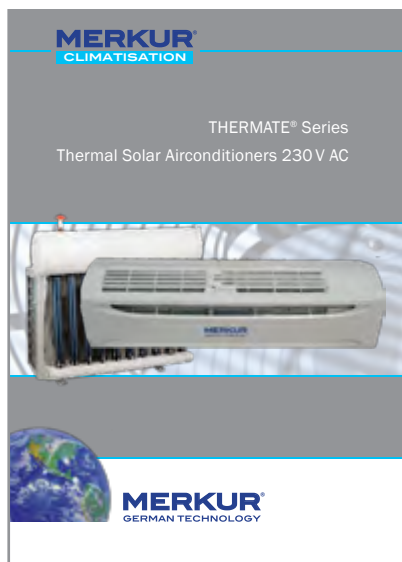
- Microprocessor controlled and operating on DC power
- Compressor driven by special CPU. Infinite variable speed, high efficiency compressor
- No AC-power required, 100% driven by renewable energy
- Low voltage power drive for all the electric parts, minimum energy loss
- R134A eco friendly, CFC free
- Hybrid mode (on-grid installation) with grid power through a Rectifier System
- The operation is convenient and simple
- Intelligent Defrost Mode, Independent Dehumidification Mode, Sleep Mode
- Operating at low noise
- Auto Protect capability in case of malfunction and Auto Restart function
- Cooling Mode, optional Cooling & Heating Mode
- Infrared Ray long distance infrared Remote Control
- Self-protection function

# SOLMATE® Series Solar Air-Cons 48V DC

Model			ULGS-26GW/DC	ULDS-35GW/DC	ULGS-52GW/DC	ULGS-72GW/DC
			1HP	1.5HP	2HP	3HP
			0.75 Tons	1 Tons	1.5 Tons	2 Tons
Capacity	Cooling	Btu/h	9000	12000	18000	24000
		W	2600	3500	5200	7200
	Heating	Btu/h	10000	13000	20000	27000
		W	2900	3800	6000	8000
Noise	Indoor	db(A)	≤ 40	≤ 42	≤ 46	≤ 50
	Outdoor	db(A)	≤ 50	≤ 52	≤ 56	≤ 58
Air Circulation		m <sup>3</sup> /h	450	550	850	1050
Suitable Area		m <sup>2</sup>	10~15	12~25	20~30	30~48
EER		W/W	4,56	4.67	4.73	4.80
		Btu/h/w	15.79	16.00	16.36	16,38
Refrigerant			R-134A	R-134A	R-134A	R-134A
Compressor			DC 48V	DC 48V	DC 48V	DC 48V
Indoor operation Tem. cooling		°C	above 17 °C	above 17 °C	above 17 °C	above 17 °C
Outdoor operation Tem. cooling		°C	18 °C ~ 50 °C	18 °C ~ 50 °C	18 °C ~ 50 °C	18 °C ~ 50 °C
Indoor operation Tem. Heating		°C	below 31 °C	below 31 °C	below 31 °C	below 31 °C
Outdoor operation Tem. Heating		°C	-7 °C ~ 24 °C	-7 °C ~ 24 °C	-7 °C ~ 24 °C	-7 °C ~ 24 °C
<b>Power Consumption</b>						
Rated Power Input	W		570	750	1100	1500
Rated Current	A		12	16	23	31
Input Voltage	V		44V - 60V DC	44V - 60V DC	44V - 60V DC	44V - 60V DC
<b>Dimensions</b>						
Indoor Unit	Net	mm	775*260*210	775*260*210	1070*385*265	1070*385*265
	Shipping	mm	840*325*265	840*325*265	1100*400*285	1100*400*285
Outdoor Unit	Net	mm	790*260*540	790*260*540	790*260*540	850*300*755
	Shipping	mm	910*370*610	910*370*610	910*370*610	950*410*760
<b>Weight</b>						
Indoor Unit	Net/Gross	kg	11/13	13/15	15/17	17/19
Outdoor Unit	Net/Gross	kg	38/40	45/48	48/52	56/58

## MERKUR Air-Con News 2016:

Our product range also includes the following air conditioners:



### **THERMATE® series** **Thermal Solar Airconditioner 230V AC**

- THERMATE® series air conditioners 220/240V AC on grid - using thermal solar energy as process heat to gain savings by reduced compressor load



### **SUNBOOST® series** **Air-Conditioners 220V/240V AC**

- SUNBOOST® series air conditioners 220/240V AC on grid – equipped with solar DC inverter to make use of solar energy boost, achieving enormous energy savings

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