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Work Manual

Hybrid Solar Air Controller



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HANDURO®

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Work Manual

Hybrid Solar Air Controller

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Work Manual

Hybrid Solar Air Controller

Hybrid Solar Air Controller it's a device to help reduce the electricity charge for air controller by using electrical energy from solar panels to supply power together with the inverter air conditioner. Which an inverter air conditioner always draws energy from the solar panels first. If the solar cell power is not enough the system will automatically draw electricity from AC for use.

Technical Specification Hybrid Solar Air Controller	
PV Input	60 - 400VDC
AC Input	176 - 250VAC
Output power	3000W
Output voltage	300 - 400VDC Adj.
Special Specification	
- Build in Solar Boost MPPT	
- Ingress Protection: IP54	

Setting

Hybrid Solar Air Controller





The setting process can be done by turning off the machine first. and the screen shows the OFF status. Then press and hold the SET button. The screen will show Parameter P00. after press and hold the SET button again, it will be P01 and b385 respectively. Press the up and down buttons to adjust the DC voltage value. When the voltage value is obtained, p ress the Enter button. The screen will show SET and wait until the screen shows the OFF status to complete the setting.

Various Parameters detail

Hybrid Solar Air Controller

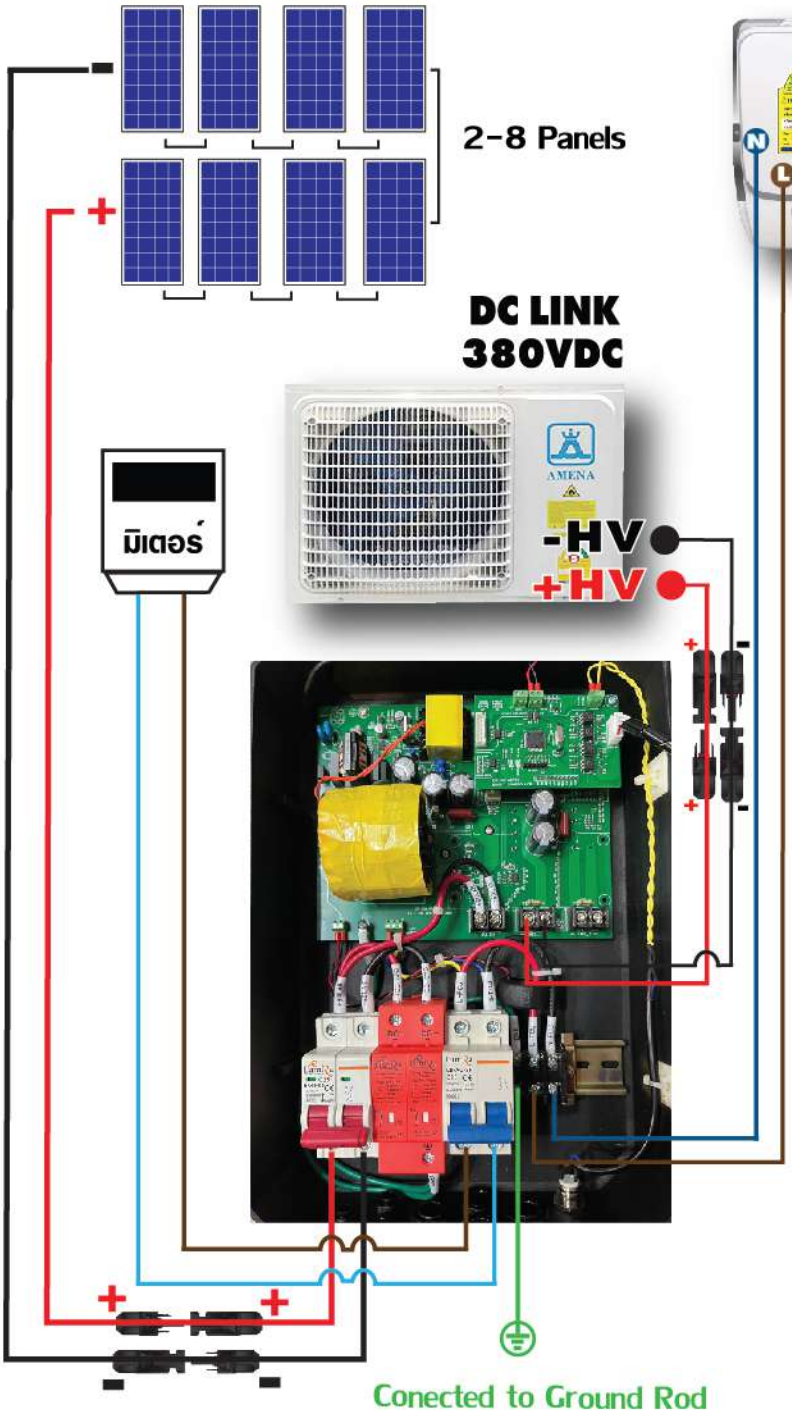
Parameter	Setting	Note
P00	0 = Automatically disable the ON/OFF system. 1 = Automatically enable the ON/OFF system.	Factory cost = 1
P01	0 = Disable the cooling fan. 1 = Enable the cooling fan.	Factory cost = 1
b385	The output voltage can be set to 300 to 400VDC.	Factory cost =385

STATUS meaningl

Hybrid Solar Air Controller

Status	Meaning
OFF	The machine doesn’ t work
Stb	The machine is in Standby mode.
On	The machine is working.
Err2	The output voltage is too high. (20V higher than the set value)
Err5	Temperature over 70 degrees Celsius.

How to connect DC LINK





MODEL: HD-DC-3KW-220

HYBRID

BTU	SOLAR CELL
9,000 BTU	450W 2 Panels
12,000 BTU	450W 3 Panels
18,000 BTU	450W 5 Panels
25,000 BTU	450W 6 Panels
30,000 BTU	450W 6 Panels
36,000 BTU	450W 7 Panels
40,000 BTU	450W 8 Panels

HYBRID SOLAR AIR CONTROLLER

MODEL: HD-DC-3KW-220

POWER : 3KW
DC INPUT : 60VDC - 320VDC
DC INPUT MAX : 400VDC
AC INPUT : 220VAC - 240VAC
OUTPUT : 380VDC ,8A MAXIMUM
Cooling Capacity Use : 9000 - 25000 BTU/1-Unit

AIR INVERTER

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WARNING

*Use for air inverter only.

*Connecting the DC link to the air conditioner board may affect the warranty on the air conditioner.

*Beware of exceeding the specified voltage.

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