



AISLU

Merlin Suit™ DC inverter RV Air Conditioner

Aislu bring dc inverter technology in RV air conditioner, with temperature zone controls, provide user most efficiency air conditioner; All DC system, and comfort automatic sensing, make superior quiet running. Impress on Merlin Suit.

- ◆ Vector DC inverter technology integrated in Merlin suit
- ◆ Aislu DC inverter horizontal compressor installed
- ◆ Temperature exquisite sensing regulate working frequency
- ◆ All DC deluxe system use with solar system or battery power source
- ◆ LittleTouch interface
- ◆ Low profile 200mm height roof top unit suit for all RV, Caravan or Yacht

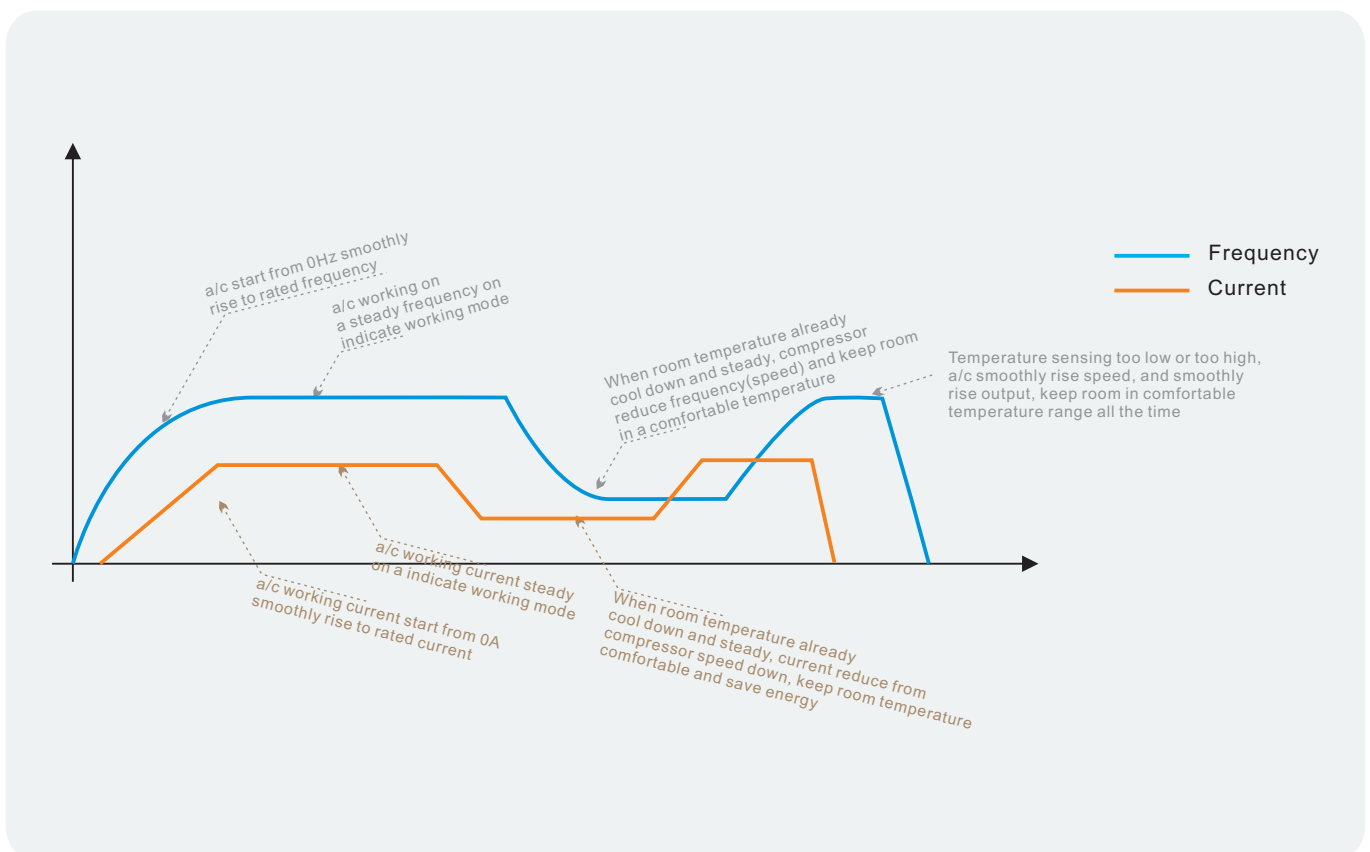
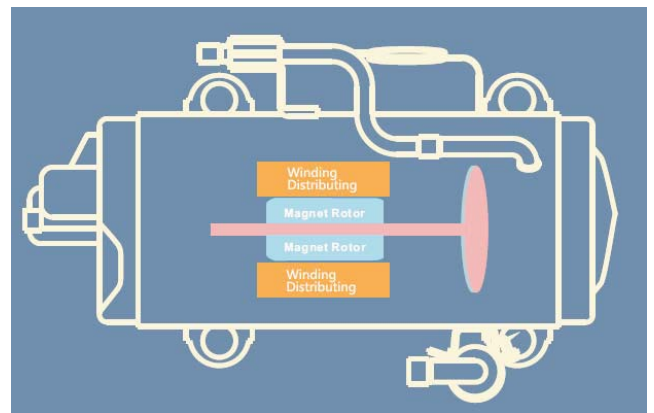
◆ DC inverter horizontal compressor

A normal RV air conditioner always used a constant-speed rotary compressor, the single phase motor inside of compressor cause the starting current of air conditioner rise very high, it could be 3 - 5 times to the rated current, and always meet generator over-load problems.

Constant-speed air conditioner cannot change compressor speed, once air conditioner power on, its output is constant cooling even you feel too cool already. Or the air conditioner will continual stop and start, waste energy source. And make room temperature blow hot and cool.

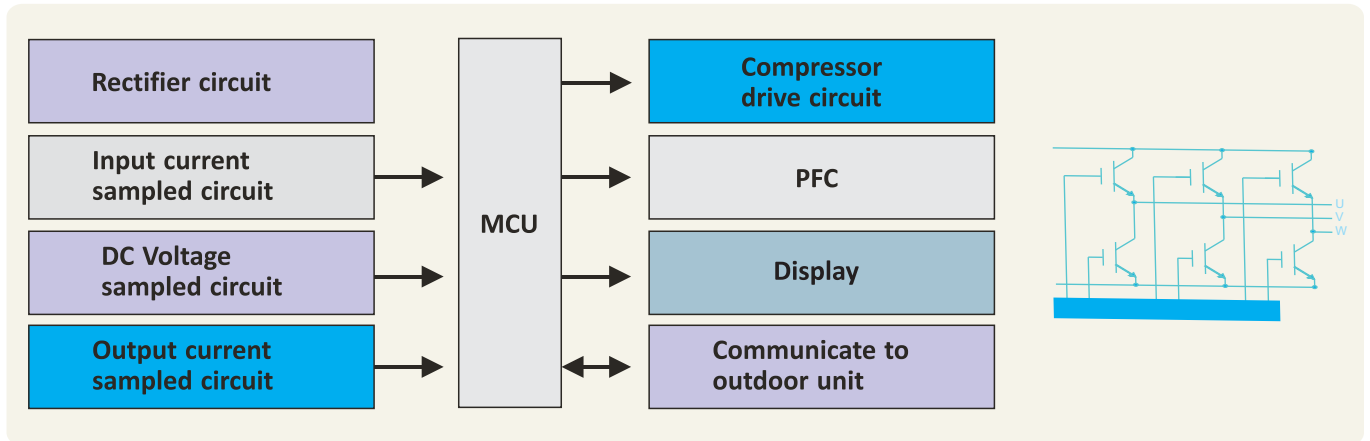
Aislu adopts dc inverter horizontal compressor for Merlin Suit™ RV air conditioner.

The DC inverter horizontal compressor composed by BLDC motor, high frequency rotary vane, makes compressor allow running from 0Hz upto 120Hz (0rpm - 7200rpm). And with Aislu MK10423 professional dc inverter driver, Compressor running with 180degree sine wave dc current, the variable speed compressor running fix from room temperature, outdoor temperature and user setup temperature sensing. Compressor variable speed makes air conditioner also variable output cooling(or heating in heat pump type air conditioner) that too keep room temperature always keep on comfortable temperature level.

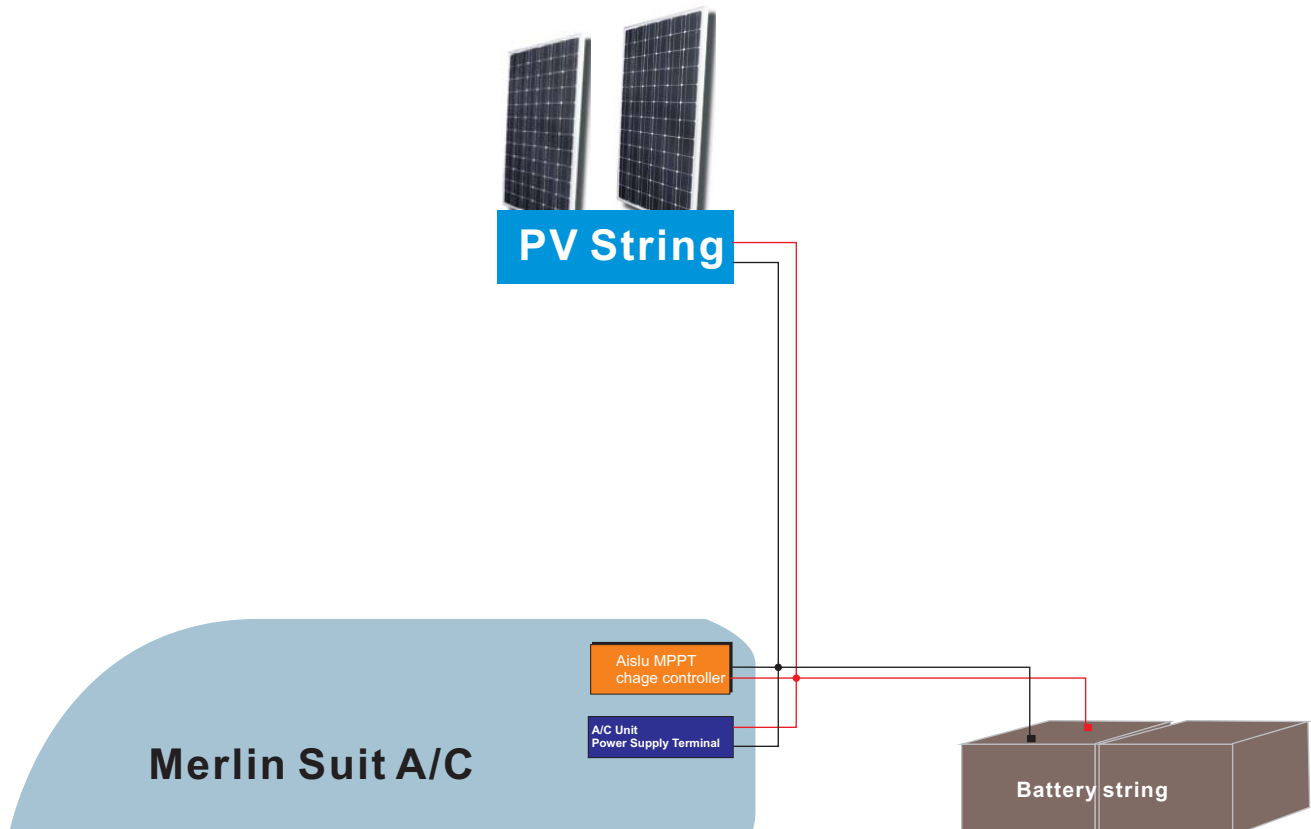


◆ Vector DC inverter controls

Fabric of dc inverter control:



Solar connect workability





LED white illuminating display

DC inverter auto run by temperature sensing

Little touch button

Above little touch interface is only for reference purpose only, the touch button and LED display may differ in different sales markets, please consult to local distributor or sales offices.



Specification

◆ Numbering

MSD	090	V	H	1	U	R
MSD: Merlin Suit DC inverter RV air conditioner	090: Rated cooling capacity mark: 090: 9000Btu/H 120: 12000Btu/H 135: 13500Btu/H 150: 15000Btu/H	V: Unit working type: S: constant-speed type V: Dc inverter type	H: Refrigerant F: R22 H: R407C G: R134A A: R410A P: R290	1: Unit type 1: Heat pump (Cool + Heat by compressor) 2: Cool only 3: Cool only + Electrical heat	U: Power supply U: 220-240VAC/50Hz International voltage J: 115VAC/60Hz North American voltage K: 208-230VAC/60Hz M: DC300V solar voltage Q: DC48V battery voltage	R: Controller type R: Remote panel + Ceiling little touch controller B: Ceiling little touch controller only T: Wall mounted thermostat

◆ General specification

Model number	MSD090VH1UR	MSD120VH1UR	MSD135VH1UR	MSD150VH1UR
Type	DC Inverter RV air conditioner, heat pump type, roof top installation			
Rated cooling capacity	9000Btu(2600W)	12000Btu(3200W)	13500Btu(4000W)	15000Btu(4500W)
Rated input power	810W	1028W	1379W	1415W
Refrigerant	R407C	R407C	R407C	R407C
Noise level	47dBA	47dBA	55dBA	55dBA
Compressor	BLDC horizontal	BLDC horizontal	BLDC horizontal	BLDC horizontal
Expansion device	Capillary	Capillary	Capillary	Capillary
Test standard	EN14511	En14511	En14511	En14511
Power source	220-240VAC/50Hz	220-240VAC/50Hz	220-240VAC/50Hz	220-240VAC/50Hz
Roof unit dim.	1020x700x200mm	1020x700x200mm	1020x700x200mm	1020x600x220mm
Gross weight	45kg	45kg	52kg	61kg
Approvals	CE	CE	CE	CE

This table listed model numbers are in 220-240VAC/50Hz international voltage.

Due to meet with the safe standards or approvals commands, the Merlin Suit™ rv air conditioner may use 60Hz fan motor inside of air conditioner.

The units listed performance data are executed under China GB standards/IEC standards, and tested with enthalpy method.

Please get reference from or enquiry to our local distributor, technical support or our export business department for all detailed technical questions, requirements.