1 Output Power: 12KW 2 Input Voltage: 90~264VAC Output Voltage: 250~450VDC Dimensions: 472x244x126mm (Two parallel machines) Cooling System: Fan

6 Protection Level: IP67 (except fan) Communication Method: CAN Enclosure: Aluminum alloy made 9 Software: Digital software design

★ Features



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Model No.: AR12K-220D38014-A-XX

Product Name: 12KW On Board Charger Fan cooling system



12KW On Board Charger Fan cooling system

Applications

Specification





Electric Commercial Vihecles

Electric Commercial Vihecles

Description **Technical specifications** Remark -40~65°C Operating temperature Long-time working Meet the QC/T 895-2011 standard **Environmental characteristics** Vibration/noise Meet the QB/T 2423.17-2008 standard Salt spray experiment 12KW max (two parallel implementations) Output Power 90~264VAC Input voltage range (recommended fire line is connected to L1/L2. zero line N is shared) Output voltage range 250-450VDC ±1% Voltage accuracy 40A Output maximum current Current accuracy ±3% Half load or more ≥93% Efficiency Rated voltage Full load 13.8VDC/7Amax (host output) Low voltage output Customizable Input over-voltage, output over-voltage, overtemperature protection, over-current Other protection features protection, output short-circuit protection, reverse battery protection, communication fault protection, internal fault protection When the temperature reaches 85 °C, the output power is reduced by half. The temperature is <80 °C in 10 minutes, and the full load is automatically restored. After 10 Over temperature protection minutes, the temperature is >80 °C, then it is turned off. When the temperature is >90 °C, it will be shut down directly. Output to the outer 2000VDC /60S 10mA Max casing Dielectric strength Input to the outer 1500VAC /60S 10mA Max casing 3000VAC /60S 10mA Max Input to output Input to output ≥20MΩ Input to the outer Insulation resistance \geq 20M Ω casing

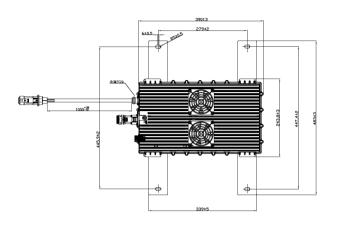


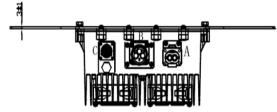
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Model No.: AR12K-220D38014-A-XX

Product Name: 12KW On Board Charger Fan cooling system

Structural parameters Connector information (can be customized)





A: DC Output

B: AC Input

C: Signal connector

Connector information (can be customized)

Position	Socket model	Function	Brand	Plug model
Α	PL083X-40-6	AC input	Amphenol	PL183X-40-6
В	PL082X-60-4	DC output	Amphenol	PL182X-60-4
С	RTOWO1210PN03	Signal socket	Amphenol	RT0W61210SNHEC03

Interface definition

Vendor	Model	Description		Remark
Amphenol	RTOWO1210PN03	А	13.8V output - (low voltage module)	
		В	Proximity Detection (CC) Control pilot (CP) CAN-GND (shared with the slave)	
		С		
		D		
		E	CAN-L (shared with the slave)	F 12-lor B
		F	CAN-H (shared with slave)	
		G	Constant battery power (12V input)	
		Н	13.8V output + (low voltage module)	
Amphenol	PL182X-60-4	1	DC output positive	
		2	DC output negative	
Amphenol	PL083X-40-6	А	FireWire (L1)	
		В	Zero line (N)	
		С	Ground wire	
		1	NC	
		2	NC	



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Slave interface definition

Vendor	Model	De	scription	Remark
Amphenol	RTOWO1210PN03	A	NC	
		B C	NC NC	
			CAN-GND (shared	
		D	with the host)	
		_	CAN-L (shared	
		E	with the host)	
		F	CAN-H (shared	
			with the host)	12:00
		G	NC NC	
		H	NC	+
		K K	NC NC	
Amphenol	PL182X-60-4	1	DC output positive	
		2	DC output negative	
		_		
Amphenol	PL083X-40-6	А	FireWire (L2)	
		В	Zero line (N)	
		С	Ground wire	
		_		
		1	NC	
		2	NC	