

Model No. : AR-11K-380S/540-W-AR01
Product Name : 11KW ON BOARD CHARGER(AC/DC)



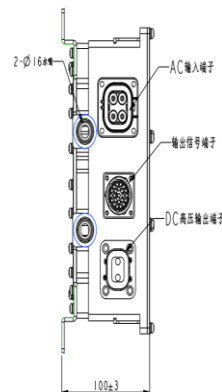
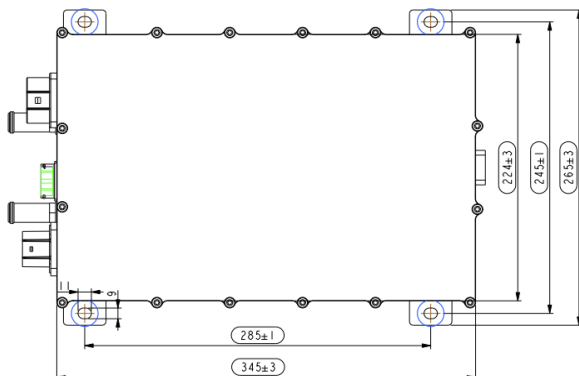
Features

- 1 Output Power : 11KW
- 2 Input Voltage : 304~456Vac
- 3 Output Voltage : 420~710VDC
- 4 Dimensions : 279x172x58mm
- 5 Cooling System : Water
- 6 Protection Level : IP67
- 7 Communication Method : CAN
- 8 Small size, light weight and stable performance
- 9 Full digital software design, redundant protection

The main technical parameters

Description		Technical specifications	Remark
Operating temperature		-40~85°C	Working Long Time
Output power		11KW	
Maximum input current		25A	
Input voltage range		304~456VAC (line-line voltage · three phase four wire system)	
Output voltage range		420~710VDC	
Activation method		CP/CC/Hard line enable	
Low voltage input specification		13.8VDC(4Amax)/27VDC(2Amax)	External low voltage supplies power to OBC.
Low voltage input power		30W	
Voltage accuracy		±1%	
Maximum output current		23A	
Current accuracy		±3%	Half load or more
Efficiency		≥ 95%	Rated voltage Full load
Output time impact		The rise time of the output voltage of the car charger should be less than 300ms, and the overshoot should be less than 10%. After receiving the shutdown command, the current drops below 10% within 300ms and drops to 0A within 500ms.	
Other protection features		Input over-voltage, output over-voltage, over-temperature protection, over-current protection, output short-circuit protection, reverse battery protection, communication fault protection, internal fault protection.	
Over temperature 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 minutes, the temperature is >80 °C, then it is turned off. When the temperature is >90 °C, it will be shut down directly.	
Insulation strength	Output to the outer casing	2000VDC /60S 10mA Max	
	Input to the outer casing	1500VAC /60S 10mA Max	
	Input to output	3000VAC /60S 10mA Max	
Insulation resistance	Input to output	≥ 20MΩ	
	Input to the outer casing	≥ 20MΩ	

Structural parameters



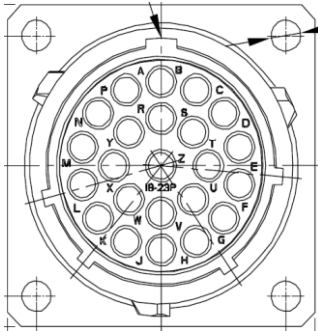


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Connector model

Position	Socket model	Function	Brand	Plug model
A	HVC4P36MV304	AC input	Amphenol	HVC4P36FS304
B	HVC2P63MV306	DC output	Amphenol	HVC2P63FS306
C	RT001823PN03	Control terminal	Amphenol	RT061823SNHEC03

Interface definition

Vendor	Model	Description			Remark
Amphenol	AC input (HVC4P36MV304)	1	L1	Live Wire 1	
		2	L2	Live Wire 2	
		3	L3	Live Wire 3	
		4	N	Naught Wire	
Amphenol	DC output (HVC2P63MV306)	1	VOUT+	Output positive	
		2	VOUT-	Output negative	
Amphenol	Control terminal (RT001823PN03)	A	NTC1-	Temperature sensor 1 negative	
		B	NTC1+	Temperature sensor 1 positive	
		C	VCC+	Normal input positive	
		D	VCC-	Normal input negative	
		E	CAHN1	CAN1 High	
		F	HVIL+	High Voltage Inter-lock positive	
		G	CANL1	CAN1 Low	
		H	HVIL-	High Voltage Inter-lock negative	
		J	NTC2-	Temperature sensor 1 negative	
		K	NTC2+	Temperature sensor 1 positive	
		L	WAKE_UP	Output wake-up signal	
		M	CAN-G	CAN shielding ground	
		N	LOCK FB2	Electronic lock feedback 2	
		P			
		R	CC_OUT	CC status output / low level enable signal	
		S	LOCK+	Electronic lock power supply positive	
		T	LOCK-	Electronic lock power supply negative	
		U	LOCK FB1	Electronic lock feedback 1	
		V	CC		
W	CP				
X	VCU_EN	Hardwire wake-up signal			



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