



Model No. : AR2KC6K6S-D14C540L

Product Name : 2KW DCDC+6.6KW OBC 2 in 1



2KW DCDC+6.6KW OBC 2 in 1

★ Features for DC/DC

- 1 Output Power : 2KW
- 2 Input Voltage : 400~750VDC
- 3 Output Voltage : 14VDC
- 4 Dimensions : 328X208X125mm
- 5 Cooling System : Liquid Cool
- 6 IP rating : IP67
- 7 Communication Method : CAN
- 8 Charging Standard : SAE
- 9 Enclosure: Aluminum alloy made
- 10 Software: Digital software design

★ Features for OBC

- 1 Output Power : 6.6KW
- 2 Input Voltage : 90~264VAC
- 3 Output Voltage : 400~670VDC
- 4 Dimensions : 328X208X125mm
- 5 Cooling System : Liquid Cool
- 6 IP rating : IP67
- 7 Communication Method : CAN
- 8 Charging Standard : SAE
- 9 Enclosure: Aluminum alloy made
- 10 Software: Digital software design

Applications



Electric Commercial Vehicles



Electric Commercial Vehicles

Specification

Description		Parameters		Remark
System		DCDC Converter	AC/DC Converter (OBC)	
Output Power		2.5KW	6.6KW	
Input voltage range		400~750VDC	90~264VAC	
Output voltage range		13.8VDC	400~670VDC	
Output voltage accuracy		±0.2VDC	±1%	
Output current		143A	20A(max)	
Current accuracy		\	±3%	Half load or more
Efficiency		≥95%	≥95%	Rated voltage full load
Low Voltage (VDC)		\	12/24VDC/200mAmax	
Auxiliary power VCC		6-18 VDC	\	
Output voltage ripple		≤500mV _{PK-PK}	\	
Other protection features		Input over-voltage, output over-voltage, output over-current and short-circuit protection (extension and snoring), over-temperature self-recovery	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	
Dielectric strength	Input to output	2500VDC/1min 1mA max	2000VDC/1min 10mA Max	
	Input to the outer casing	2500VDC/1min 1mA max	1500VAC/1min 10mA Max	
	Input to output	\	3000VAC/1min 10mA Max	
Insulation resistance	Input to output	≥20MΩ	≥20MΩ ;	
	Input to the outer casing	≥20MΩ	≥20MΩ ;	
Weight	Net weight / Gross weight			

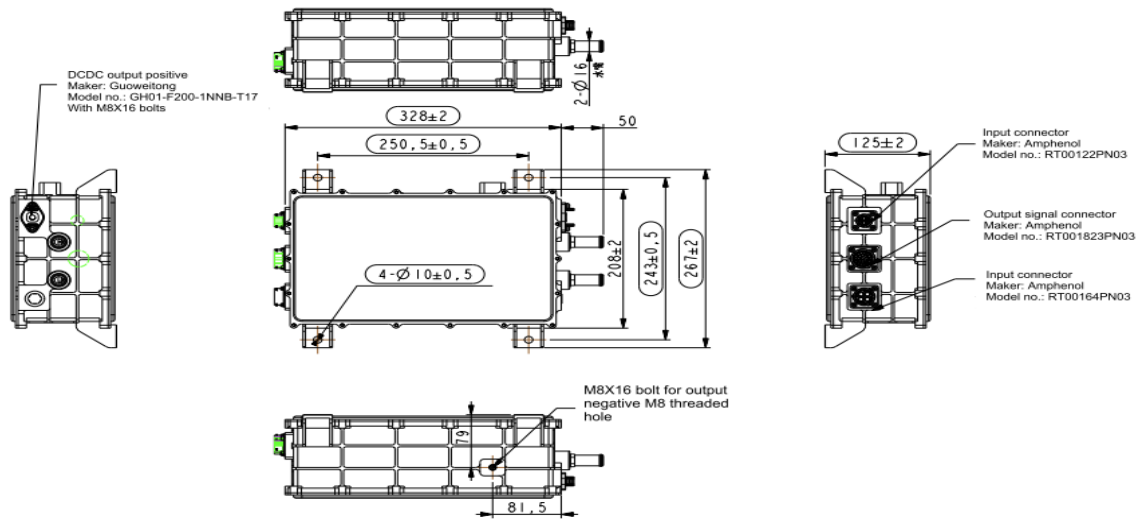




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Structural parameters



skills requirement :

1. The dimensions not specified are based on the 3D drawing, and the dimensions in the box are the key inspection dimensions.
2. The dimensions without tolerances are implemented in accordance with GB1804-2000-M. The dimension tolerance of unmarked position shall be implemented according to GB1184-1996-M.
3. The surface of the product shell is flat, smooth, beautiful, and uniform in color, without bumps, spots, cracks, burrs, and deformation.
4. Reliable parts are fastened reliably without defects and damages such as rust, burrs, cracks, etc. The connectors and pins are intact and no damage; the components are firmly connected.

Electrical Interface

Connector Table

Item	Position	Receptacle model no.	Pinout definition	Plug model no.	Maker
1	A	RT001823PN03	Control terminal	RT061823PNH03	Amphenol
2	B	RT00164PN03	AC input	RT06164SNHEC03	Amphenol
3	C	RT00122PN03	DC high voltage	RT06122SNHEC03	Amphenol
4	D	GH01-F200-1NNB-T17	Output positive	M8 Screw bolt	Guowei tong
5	E	Screw bolt	Output negative	/	/

Pinout definition

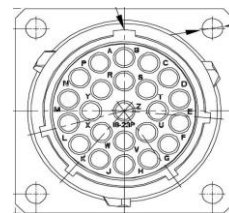
Receptacle model no.	Pin number	Pinout definition	Description	Connector picture
Input (RT00164PN03)	A	Fire wire	L	
	B	Zero line	N	
	C	Ground	PE	
	D	NC		
Output (RT00122PN03)	A	Positive	Output positive	
	B	Negative	Output negative	
	1	Interlock 1	Interlock signal 1	
	2	Interlock 2	Interlock signal 2	
	A	OBC~VCC+	OBC external input	



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Control terminal (RT001823PN03)	B	DCDC~VCC+	DC / DC input auxiliary power supply
	C	Proximity Detection (CC)	Charging connection signal
	D	Control pilot (CP)	Charge control signal
	E	CC_OUT	CC_OUT (reserved)
	F	CAN-H	DC / DC and OBC communication high
	G	CAN-L	DC / DC and OBC communication low
	H	CAN-GND	DC / DC and OBC communication ground
	J	OBC~J1772 mode enable (High level signal)	VCU / BMS wake-up signal (100mA) is galvanically isolated from input
	K	LOCK feedback 2	Electronic lock unlock signal (reserved)
	L	LOCK+	OBC drive electronic lock lock / unlock
	M	LOCK-	OBC drive electronic lock lock / unlock
	N	LOCK feedback 1	Electronic lock feedback signal
	P	NTC1+	Slow charge socket temperature 1 positive
	R	NTC2+	Slow charging socket temperature 2 positive
	S	OBC~VCC-	OBC external input
	T	DCDC~VCC-	DC / DC input auxiliary power negative
	U	DCDC~EN enable	DC / DC enable (control VCC)
	V	NTC1-	Slow charge socket temperature 1 min
	W	NTC2-	Slow charge socket temperature 2 negative
	X	NC	
	Y	NC	
	Z	OBC~VCU_EN	VCU wakes up OBC (reserved)



Label

Product Name	2KW DCDC+6.6KW OBC 2 in 1		
Product Part No.	e25.AR2KC6K6S-D14C540L		
Product Model	AR2KC6K6S-D14C540L		
Serial Number	2020XXXXXXXX		
Input Voltage	DCDC: 400~750VDC, OBC: 90~264VAC	Output Voltage	DCDC: 14VDC, OBC: 400~670VDC
Output Current	DCDC: 143A, OBC: 20A	Output power	DCDC: 2000W, OBC: 6600K
Supplier	ANNREN TECHNOLOGIES CO., LTD.		

