安仁國際股份有限公司
ANNREN TECHNOLOGIES CO., LTD.

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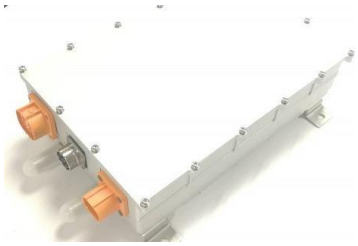
No.196-19, CHUNGHWA RD. ,YUNGKANG DISTRICT, TAINAN CITY 71069, TAIWAN

Model No.：LWC6K6-220S380-W
Product Name：6.6KW OBC Liquid

Date	Jul.13th, 2020	Version	V01	Remark	1. Model No. changed to LWC6K6-220S380-W from AR6K6-220S380L



6.6KW OBC Liquid

★ **Features**

1 Charging Standard: IEC
2 Output Power：6.6KW
3 Input Voltage：90~264VDC
4 Output Voltage：200~450VDC
5 Dimensions：500x300x200mm
6 Cooling System：Liquid (water nozzie ϕ20)
7 IP Rating：IP67
8 Communication：CAN
9 Enclosure: Aluminum alloy made
10 Software: Digital software design

Applications

Electric Commercial Vihecles

Electric Commercial Vihecles

Specification

Description		Technical specifications	Remark
Environmental characteristics	Operating temperature	-40~85℃	Long-time working
	Vibration/noise	Meet the QC/T 895-2011 standard	
	Salt spray experiment	Meet the QB/T 2423.17-2008 standard	
Output Power		6.6KW max	
Input voltage range		90~264VDC	
Output voltage range		200-450VDC	
Voltage accuracy		±1%	
Output maximum current		20A	
Current accuracy		±3%	Half load or more
Efficiency		≥95%	Rated voltage Full load
Low voltage (VDC)		A:12Vdc/200mAmax	
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	
Dielectric 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	
Electromagnetic compatibility	Radiation emission	GBT 18387：2008 · EN 55022 CLassB	
	Conducted emission	GBT 18387：2008 · EN 55022 CLassB	
	Radiation immunity	GBT 18387：2008 · EN 55022 CLassB	
Weight	Net weight / Gross weight	8.5KG / 9.0KG	
CAN byte speed		250Kbps/500Kbps	

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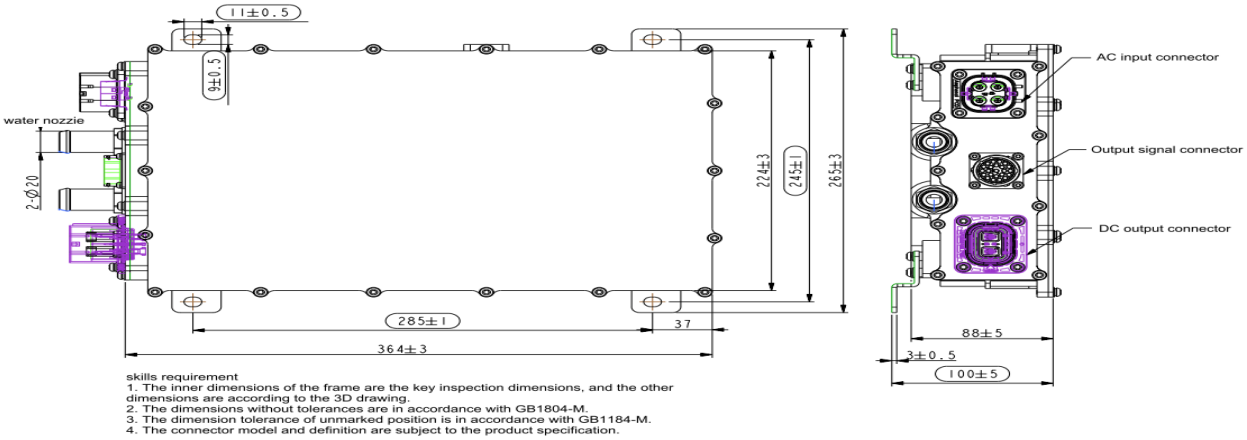
Structural parameters

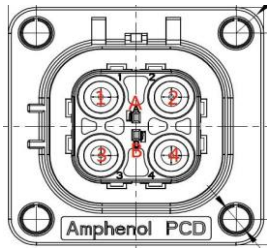
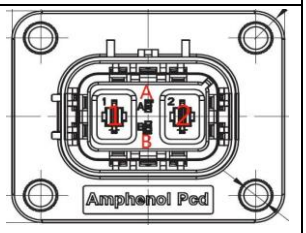


Electrical Interface

Connector Table（customizable）

Item	Position	Receptacle model no.	Pinout definition	Maker	Plug model no.
1	A	HVSL364024A1	AC input	Amphenol	HVSL364064A106I
2	B	HVSL630022A1	DC output	Amphenol	HVSL630062A
3	C	RT001823PN03	Control terminal	Amphenol	RT061823PNHEC03

Interface definition

System Load definition	Pin number	Pinout definition	Description	Connector picture
AC input (HVSL364024A1)	1	FireWire L1	L1 (Single FireWire Fixed Input)	
	2	FireWire L2	L2 (reserved, 11KW enabled)	
	3	FireWire L3	L3 (reserved, 11KW enabled)	
	4	NC	Neutral / midline	
	A	NC	NC	
	B	NC	NC	
Casing	N	Ground	Product housing identification	Machine housing terminal
DC output (HVSL630022A1)	1	Positive	Output positive	
	2	Negative	Output negative	
	A	Interlock 1	Connection Interlock 5	
	B	Interlock 2	Connection Interlock 6	
	A	CAN-L	CAN low	
	B	VCC+	Normal input is positive	
	C	VCU_EN	Hard-wired wake-up OBC, enable signal (high (Active level)	
	D	CP	CP	
	E	PP	PP	
	F	WAKE_UP	VCU / BMS wake-up signal (100mA) Galvanically isolated from input	
	G	NTC1-	Temperature sensor 1 negative	
	H	NTC1+	Temperature sensor 1 positive	

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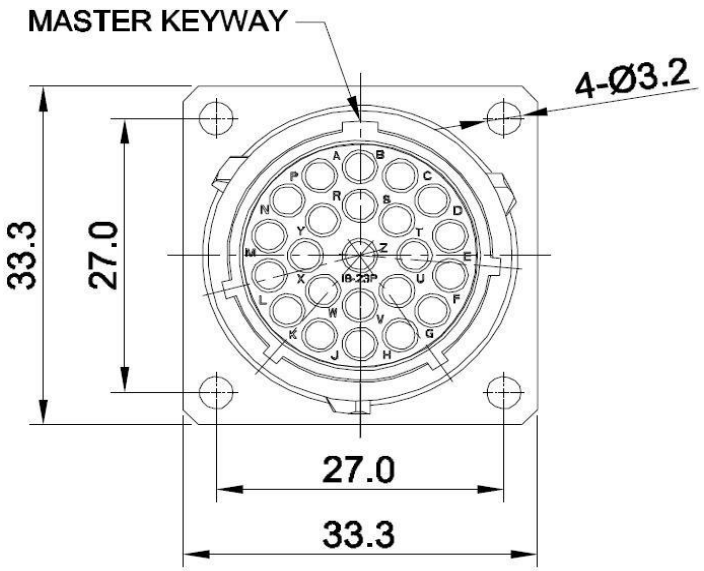
Control terminal (RT001823PN03)

J	NTC2-	Temperature sensor 2 negative
K	NTC2+	Temperature sensor 2 positive
L	CAN1-H	CAN high
M	LOCK+	Electronic lock +
N	LOCK-	Electronic locks-
P	LOCK feedback	Electronic locks
R	CP_OUT	CP status output, low level enable
S	Interlock 5	Interlock signal detection 1
T	Interlock 6	Interlock signal detection 2
U	NC	NC
V	NC	NC
W	GND	GND
X	NC	NC
Y	NC	NC
Z	NC	NC



Label

Packing Information

Carton size	500x300x200 (mm)
Weight (KG)	9.0KG