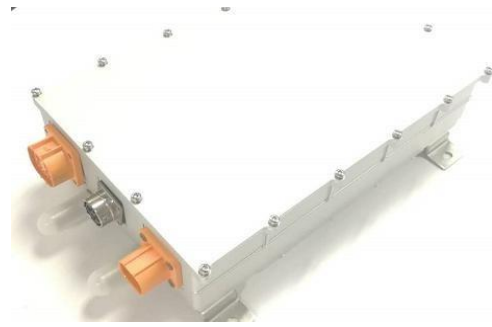


Model No. : AR6K6-220S380L

Product Name : 6.6KW On Board Charger Liquid Cooled System



6.6KW On Board Charger Liquid Cooled System

★ Features

- 1 Output Power : 6.6KW
- 2 Input Voltage : 90~264VAC
- 3 Output Voltage : 200~450VDC
- 4 Dimensions : 500x300x200mm
- 5 Cooling System : Liquid (water nozzle ϕ 20)
- 6 IP Rating : IP67
- 7 Communication : CAN
- 8 Enclosure: Aluminum alloy made
- 9 Software: Digital software design

Applications



Electric Commercial Vehicles



Electric Commercial Vehicles

Specification

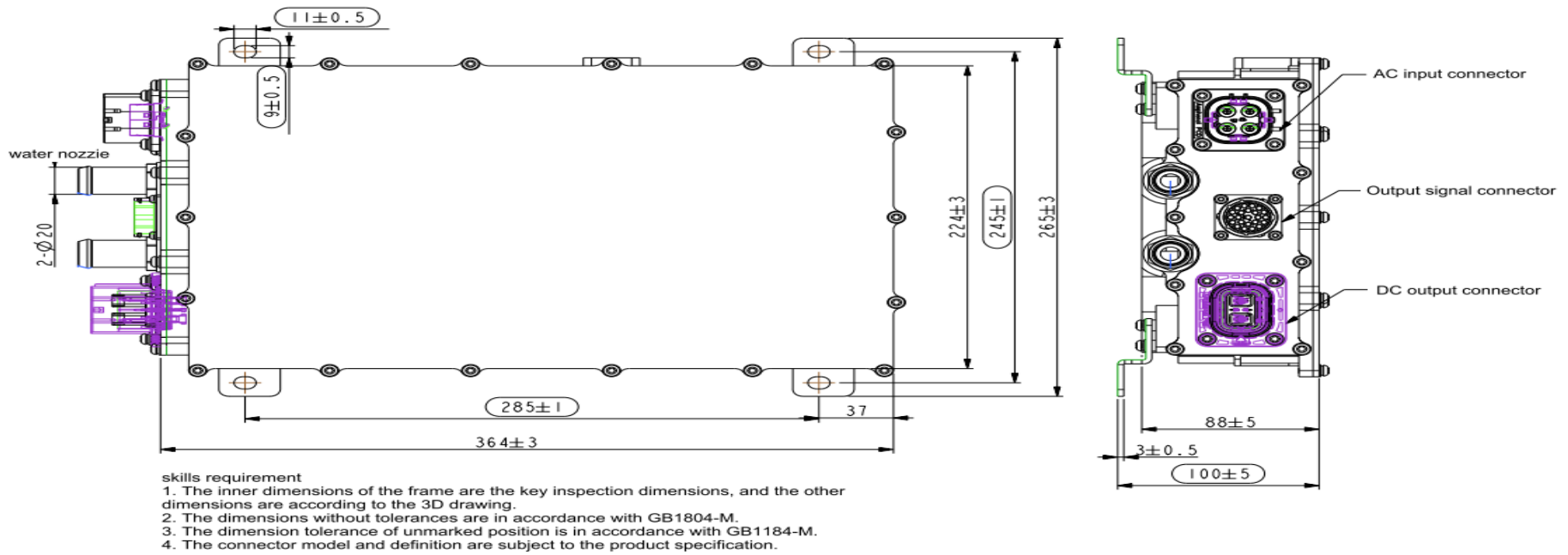
| Description | | Technical specifications | Remark |
|-------------------------------|----------------------------|---|-------------------------|
| Environmental characteristics | Operating temperature | -40~85°C | Long-time working |
| | Vibration/noise | Meet the QC/T 895-2011 standard | |
| | Salt spray experiment | Meet the QB/T 2423.17-2008 standard | |
| Output Power | | 6.6KW max | |
| Input voltage range | | 90~264VAC | |
| 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 CClassB | |
| | Conducted emission | GBT 18387 : 2008 · EN 55022 CClassB | |
| | Radiation immunity | GBT 18387 : 2008 · EN 55022 CClassB | |
| Weight | Net weight / Gross weight | 8.5KG / 9.0KG | |



Model No. : AR6K6-220S380L

Product Name : 6.6KW On Board Charger Liquid Cooled System

Structural parameters

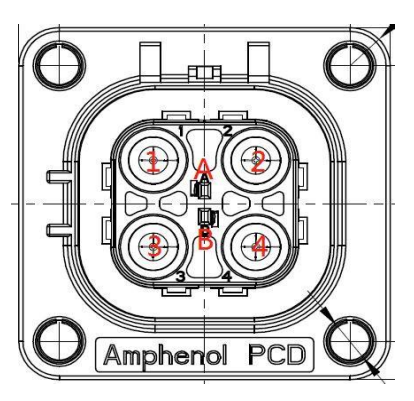
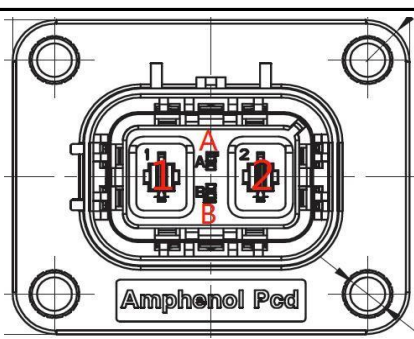


Electrical Interface

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 |

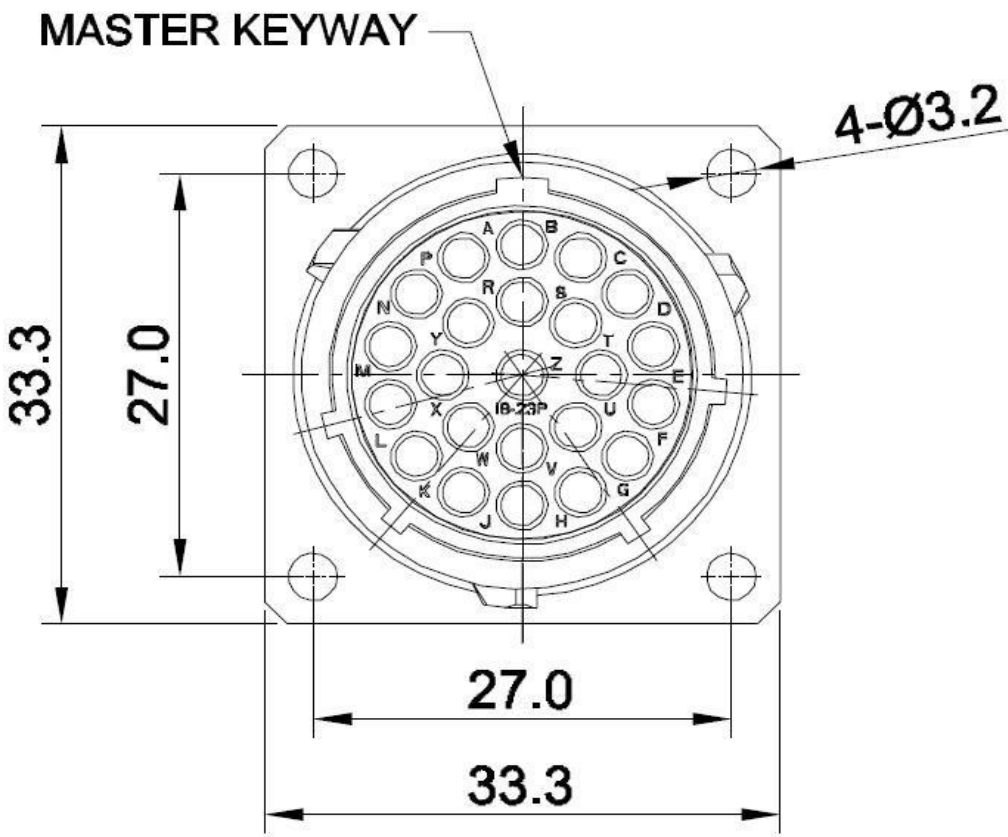
Interface definition

| 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 | CC | CC | |
| | E | CP | CP | |

Model No. : AR6K6-220S380L

Product Name : 6.6KW On Board Charger Liquid Cooled System

| | | | |
|------------------------------------|---|---------------|---|
| Control terminal (RT001823PN03) | 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 |
| | 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 | CC_OUT | CC 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

| | | | |
|------------------|---|----------------|------------|
| Product Name | 6.6KW On Board Charger Liquid Cooled System | | |
| Product Part No. | e25.AR6K6-220S380L | | |
| Product Model | AR6K6-220S380L | | |
| Serial Number | 2020XXXXXXXX | | |
| Input Voltage | 90~264v | Output Voltage | 200~450VDC |
| Output Current | 20A | Output power | 6600W |
| Supplier | ANNREN TECHNOLOGIES CO., LTD. | | |

