**产 品 规 格 书**

**PRODUCT** **APPROVAL** **SHEET**

|  |  |
| --- | --- |
| 客户名称： |  |
| CUSTOMER： |  |
| 贵司制品名： | 　 | 我司制品名： | 直流电流传感器 |
| CUSTOMER PN： | 　 | PRODUCT PN: | DC current sensor |
| 贵司规格： | 　 | 我司规格： | TFY-CSB-ZM-500 |
| PRODUCT CODE: | 　 | PRODUCT CODE: |  |
| 贵司料号: | 　 | 我司规格书编号： | TFY-CSB-ZM-500（v2.0） |
| CUSTOMER NO. | 　 | PRODUCT NO. |  |
| □ 新品承认 | 　 | 批准APPROVAL：PLB日期Date：2022/02 | 审查CHECK：YF日期Date：2022/02 | 设计DESIGN：WYD日期Date：2022/02 |
| □ NEW APPROVE  | 　 |
| □ 规格变更再承认 | 　 |
| □ CHANGE CODE APPROVE AGAIN | 　 |
| □ 材料变更再承认 | 　 |
| □ CHANGE MATERIAL APPROVE AGAIN | 　 |
| 贵司承认栏APPROVAL SIGNATURE |
| 　 | 　 | 　 | 　 | 　 |
| 贵司印章 |  |  |  |  |
| Company seal |  |  |  |  |
| 　  | 　 | 确认人：　 | 　联系电话： | 　 |
| 请于 年 月 日前承认返回，日期DATE： |
| PLEASE RETURN TO US AFTER CONFIRMED! THANK YOU！ |

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1. Sphere of application

This series of current sensors is a high-precision current measurement module designed based on magnetic sensing technology and closed-loop working principle, which can be applied to watt-hour meters, charging piles and other direct current measurement.

2. Applicable conditions

2.1 atmospheric pressure：63kPa~106kPa, at an altitude below 4000m.

2.2 Climatic environment: there are no gases, vapors, chemical deposits, dust and other corrosive and explosive media that seriously affect the insulation of the transformer.

2.3 temperature and humidity (table 1)

Table1 temperature and humidity

|  |  |  |  |
| --- | --- | --- | --- |
| conditions | scope | conditions | scope |
| Specified operating temperatures | -40℃~85℃ | Average annual humidity | <75% |
| Extreme operating temperature | -40℃~95℃ | 30 days (these days are distributed in a natural way throughout the year) | 95% |
| Storage temperature | -40℃~85℃ | Occasional on other days | 85% |

3. Reference standard

**JBT 7490-2007** Hall Current Sensor

**GB/T33708-2017** Static meter for direct current energy

**Q/GDW 1825-2013 T**echnical specifications for DC energy meters

**DL/T 1484-2014** Technical specifications for DC energy meters

**4. Structure and size**



**Figure 1 Dimension drawing**

**Note: connector specification 2x4p2.54mm.**

**5.** **Electrical parameters：（Ta=25°C，Vc=+12VDC，RL=10KΩ）**

|  |  |  |  |
| --- | --- | --- | --- |
| Parameters | Symbol | Value | unit |
| Rated input | Ipn | 500 | A |
| Maximum measured current | Ip | 600 | A |
| Output voltage | Vo | 1 \* (I/ Ip) | V |
| Load impedance | RL | ≥10 | KΩ |
| power supply voltage | Vc | ±12（±5%） | V |
| static power consumption （@+12V, Ip=0A） | IC | ≤15 | mA |
| Maximum power consumption （@+12V, Ip=600A） | Im | ≤160 | mA |
| precision （0.01Ipn~0.05Ipn @25℃） | XG | 0.5 | % |
| precision （0.05Ipn~Ipn @25℃） | XG | 0.2 | % |
| The zero offset voltage （Ip=0A，@25℃） | VOE | ≤1 | mV |
| response speed （@90% Ipn） | Tra | ≤5 | uS |
| bandwidth （@Ipn, -3dB）  | BW | DC~20 | kHz |