

Smart Battery Charger

GSCH4000A-E01



1.Introduction

1.1 Scope

This specification will describe the physical, functional and electrical characteristics of the GSCH4000A Smart battery standard charger provided by SIGLENT TECHNOLOGIES CO.,LTD



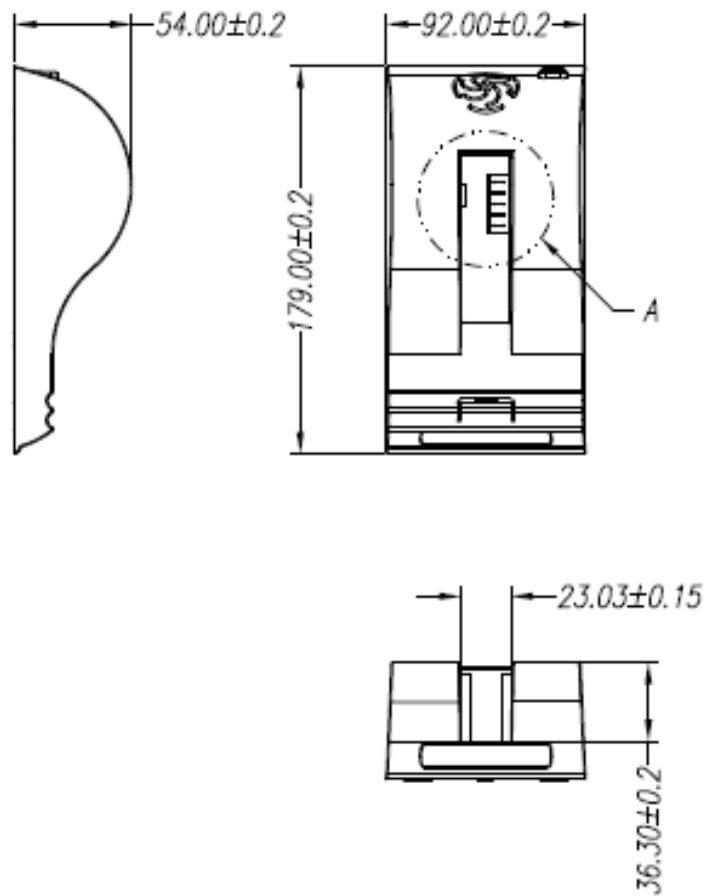
2. Specification

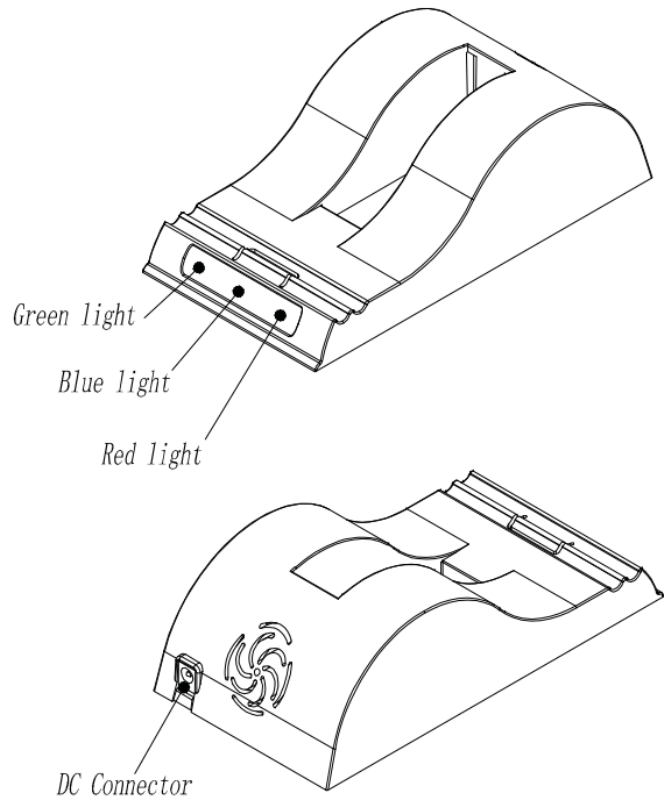
2.1 GSCH4000A specification

| Input | | |
|---------------------------|---|-----------------|
| Voltage range | 9-26V DC (The input voltage should be more than 0.5V above the limit charging voltage of the charged battery) | |
| Power | ≥50W | |
| Interface | 2.1φx5.5φDC | |
| Output | | |
| Voltage range | 0-17V DC | |
| Charge power | 67W max. | |
| Interface | 5-blade standard battery connector | |
| Communications | System Management Bus Rev 1.0, Smart Battery Data Specification Rev 1.0 and Smart Battery Charger Specification Rev 1.0 compliant | |
| Efficiency | >85% | |
| Protection | Over temperature, Over current, Over Voltage, Short circuit | |
| Environmental | | |
| | Operation | Storage |
| Ambient Temperature | 0°C to 40°C | -30°C to 80°C |
| Humidity(non-condensing) | 20% to 90% RH | 10% to 95% RH |
| Mechanical | | |
| Dimensions(L*W*H) | 180*92*54mm(±0.3mm) | |
| Weight | 235g | |
| LED Indications | | |
| Blue light | Charger is ready for use | |
| Green blinking | Charging mode | |
| Green light | Charging complete, The battery can be removed for use | |
| Red light | Failure mode, AC power supply error or battery is damaged | |
| Safety & EMC | | |
| Regulatory approvals | Europe | CE |
| | USA | FCC |
| Electromagnetic Emissions | Europe | EN55032 class B |
| | USA | FCC15 class B |

| | | |
|--------------------------|---|------------------|
| Electromagnetic Immunity | ESD immunity | EN/IEC61000-4-2 |
| | Electromagnetic field immunity | EN/IEC61000-4-3 |
| | EFT / Burst | EN/IEC61000-4-4 |
| | Surge | EN/IEC61000-4-5 |
| | Conducted Immunity | EN/IEC61000-4-6 |
| | Magnetic Fields | EN/IEC61000-4-8 |
| | Voltage dips, short instrumentations & voltage variations | EN/IEC61000-4-11 |

3.Mechanical





4.Safety

- 1.Do not expose the charger or power supply to water or liquids!
- 2.When charging, make sure the battery is fully connected to the charger connector!
- 3.Use only the manufacturer's power supply and observe terminal polarity!
- 4.Do not cover the air vent or obstruct the airflow, this will cause overheating!
- 5.Do not open the charger or power supply case!



About SIGLENT

SIGLENT is an international high-tech company, concentrating on R&D, sales, production and services of electronic test & measurement instruments.

SIGLENT first began developing digital oscilloscopes independently in 2002. After more than a decade of continuous development, SIGLENT has extended its product line to include digital oscilloscopes, isolated handheld oscilloscopes, function/arbitrary waveform generators, RF/MW signal generators, spectrum analyzers, vector network analyzers, digital multimeters, DC power supplies, electronic loads and other general purpose test instrumentation. Since its first oscilloscope was launched in 2005, SIGLENT has become the fastest growing manufacturer of digital oscilloscopes. We firmly believe that today SIGLENT is the best value in electronic test & measurement.

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