

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



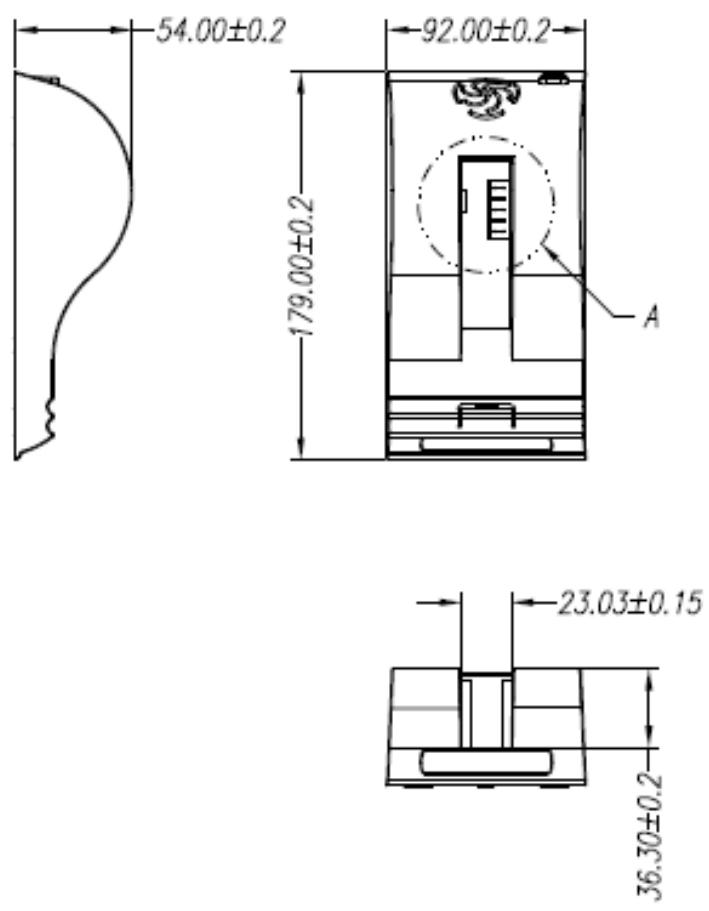
2. Specification

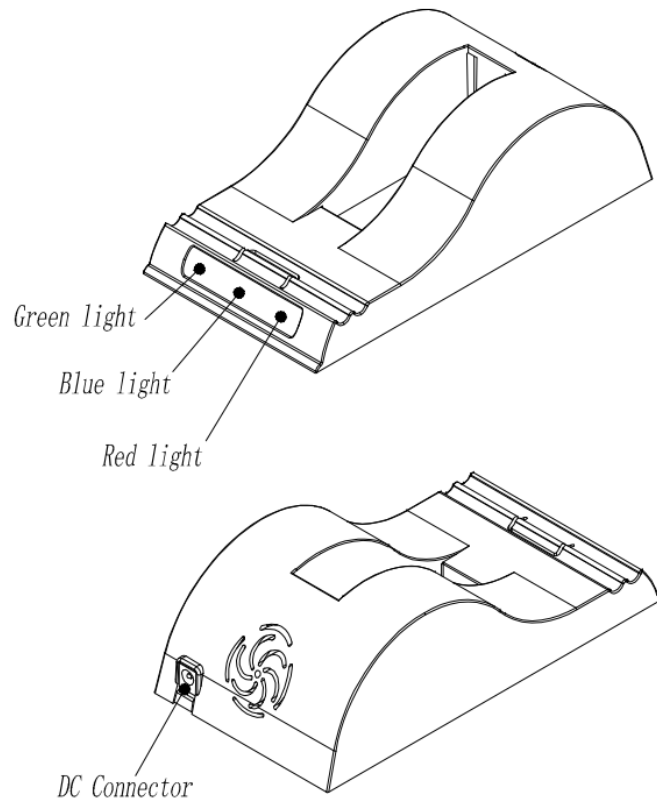
2.1 GSCH4000A specification

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(Included external AC/DC power supply)		
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.

Headquarters:

SIGLENT Technologies Co., Ltd
Add: Bldg No.4 & No.5, Antongda Industrial
Zone, 3rd Liuxian Road, Bao'an District,
Shenzhen, 518101, China
Tel: + 86 755 3688 7876
Fax: + 86 755 3359 1582
Email: sales@siglent.com
Website: int.siglent.com

North America:

SIGLENT Technologies America, Inc
6557 Cochran Rd Solon, Ohio 44139
Tel: 440-398-5800
Toll Free: 877-515-5551
Fax: 440-399-1211
Email: info@siglentna.com
Website: www.siglentna.com

Europe:

SIGLENT Technologies Germany GmbH
Add: Staetzlinger Str. 70
86165 Augsburg, Germany
Tel: +49(0)-821-666 0 111 0
Fax: +49(0)-821-666 0 111 22
Email: info-eu@siglent.com
Website: www.siglenteu.com

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