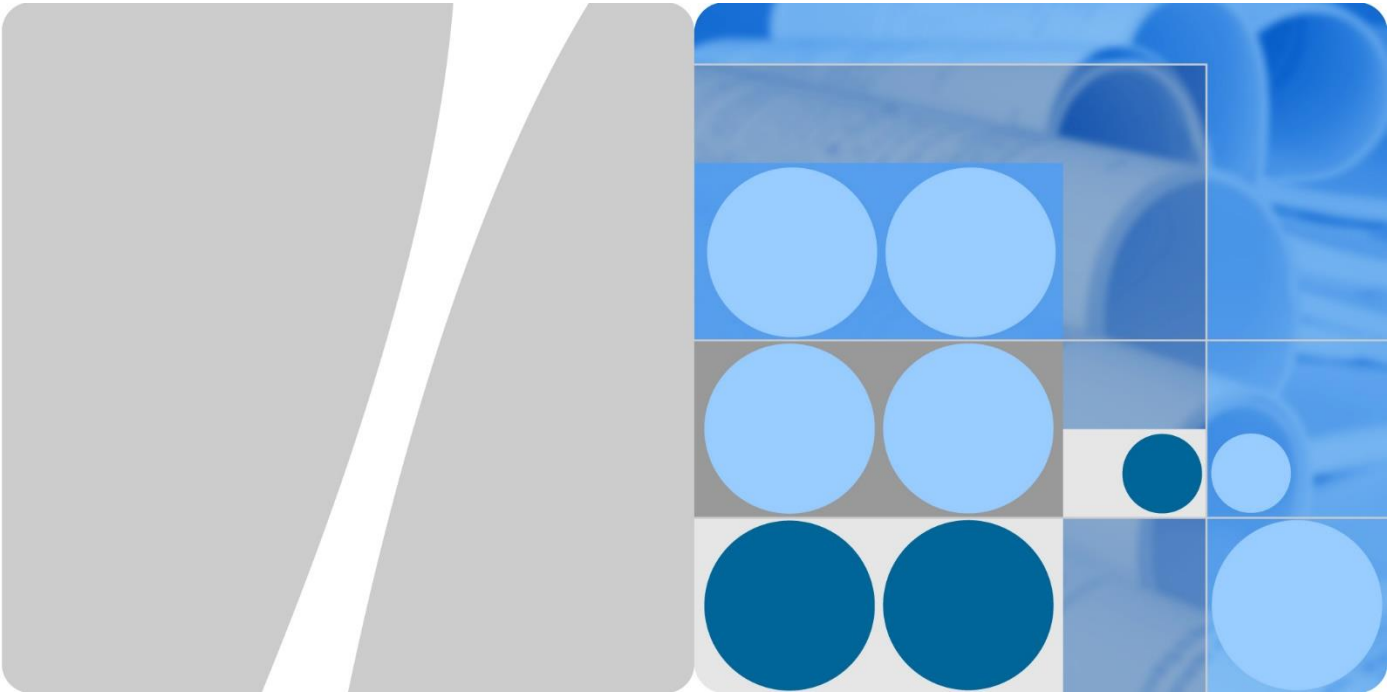


Product Overview



HUAWEI SuperCharge Wall Charger (Max 100 W)

Version V1.0
Date 2024-08-29

Huawei Device Co., Ltd.



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Change History

Issue	Description	Release Date	Prepared By	Authorized By
V1.0	Newly drafted	2024-08-29		



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1 Product Overview

1.1 Product Introduction

HUAWEI SuperCharge Wall Charger (Max 100 W) comes with a USB Type-C port, which is compatible with 5 V 3 A, 9 V 3 A, 10 V 4 A, 12 V 3 A, 15 V 3 A Max, and 20 V 5 A Max specifications, as well as a USB Type-A port, which is compatible with 5 V 2 A, 10 V 4 A, and 20 V 5 A Max specifications. Fast charging protocols such as SCP class A (FCP), SCP high-voltage class B, UFCS, PD 3.0/PPS, and QC 2.0 are supported¹. With multiple protection mechanisms, the charger is secure, reliable, compact, and easy to carry.

Note:

1. The charger is designed to be compatible with the PD 3.0/PPS and QC protocols, but has not obtained compatibility authentication certificates. Some devices with non-standard PD 3.0/PPS or QC protocol may not support fast charging with this charger.

- USB Type-C/Type-A converged port output
- Supports HUAWEI SuperCharge technology
- Compatible with UFCS, PD 3.0/PPS, and QC 2.0 fast charging technologies.

1.2 Product Appearance

Version:

2 Technical Specifications

Table 2-1 lists the technical specifications of the HUAWEI SuperCharge Wall Charger (Max 100 W).

Table 2-1 Technical specifications

Item	Description
Color	White
Size	55 mm x 55 mm x 28.3 mm (excluding the AC plug)
Weight	Approx 137g
Rated input voltage	100–240 V AC
Rated input voltage frequency	50/60 Hz
Rated input current	2.4 A Max
No-load power	0.125W Max
Protocol rated output	Type-A port: 5 V 2 A, 10 V 4 A, or 20 V 5 A Max Type-C port: 5 V 3 A, 9 V 3 A, 10 V 4 A, 12 V 3 A, 15 V 3 A Max, or 20 V 5 A Max
CV protection point	2.5–3.4 V (no protocol) 0.55 x Vout V (SCP class A, SCP high-voltage class B, UFCS, PD 3.0/PPS, and QC)
Output power	100 W Max
Output delay time	< 3 seconds
Output rise time	< 30 ms
Common mode noise	< 2 V
Operating temperature	–10°C to 45°C
Storage temperature	–40°C to +70°C
Relative humidity	5%–95%
Altitude	Max 5000 m (working)
Service life	5 years
Mean time between failures (MTBF)	50,000 hours

3 Protection Features

The HUAWEI SuperCharge Wall Charger (Max 100 W) has eight layers of safety protection, as described in Table 3-1.

Table 3-1 Protection features

Item	Available or Not	Minimum Value	Typical Value	Maximum Value	Remarks
Output short circuit protection	Yes	/	/	/	Prevents damage caused by output short-circuits due to exceptions.
Output overcurrent protection	Yes	/	/	/	Prevents damage caused by output overcurrent due to exceptions.
Output overvoltage protection	Yes	/	/	/	Prevents damage caused by output overvoltage due to exceptions.
Overtemperature protection	Yes	/	/	/	Detects key heating power components, and provides thermal protection.
Output undervoltage protection	Yes	/	/	/	Prevents damage caused by output undervoltage due to exceptions.
Lightning protection	Yes	/	/	/	/
Electromagnetic field protection	Yes	/	/	/	/
ESD protection	Yes	/	/	/	/

4 Packing List

Table 4-1 lists the items contained in the HUAWEI SuperCharge Wall Charger (Max 100 W).

Table 4-1 Packing list

Item	Quantity	Description
Charger	1	Standard
User guide (including the warranty card)	1	Standard
Data cable	1	Standard