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Battery Plus Service Power Adapter Datasheet

Overview

Description

The RAK Battery Plus Service Power Adapter is designed to pair with RAK9155 Battery Plus for thorough in-house charging prior to deployment. This adapter enables quick and reliable battery charging, ideal for reviving batteries with prolonged storage or simulating a full power cycle for maintenance and evaluation purposes. It provides a 19 V_{DC} output with a 9.47 A current and 180 W power, featuring a dedicated connector that matches the Battery Plus input (PV input).

Features

- Input: 100-240 V_{AC} (50~60 Hz)
- Output: 19 V_{DC} 9.47 A
- Rated Power: 180 W
- Protection:
  - Overcurrent protection
  - Short Circuit protection
  - Overvoltage protection
- DC cable: 1.2 m with Battery Plus input (PV input) connector
- Usage type: Indoor

Specifications

Hardware

Interfaces

- One (1) AC Input 100~240 V power input



Figure 1: Power Input Interface

- One (1) Battery Plus PV Input compatible connector

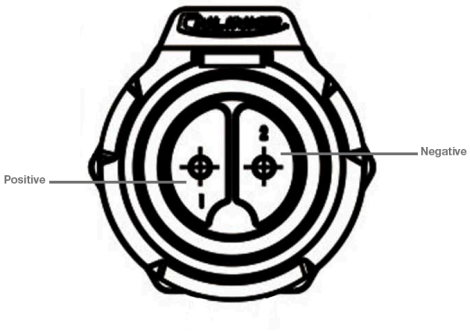


Figure 2: Output/PV Input compatible connector

Pin	Designation
1	Positive
2	Negative

Electrical Characteristics

Parameter	Value
Input	100-240 V_{AC} (50~60 Hz)
Output	19.0 V_{DC} 9.47 A (±2%)
Protections	Overcurrent protection Short Circuit protection Overvoltage protection

Parameter	Value
EMI/EMS Standards	EN 55032, EN 55035, FCC Part 15, GB 9254, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, and EN 61000-4-11
DC Connector Type	LP16-2: Matching with the Battery Plus PV Input connector
Mean Time Before Failure (MTBF)	≥ 100,000 hours (@ 25° C)

Environmental Characteristics

Feature	Specifications
Type of Use	Indoor
Operating Temperature	0 to 40° C
Storage Temperature	-40 to 70° C
Operating Humidity	5~95% RH non-condensing
Storage Humidity	5~95% RH non-condensing
Enclosure Material	Plastic
Weight	560 g (±5 g)
Dimensions	165×70×30 mm (±1 mm)

Mechanical Characteristics

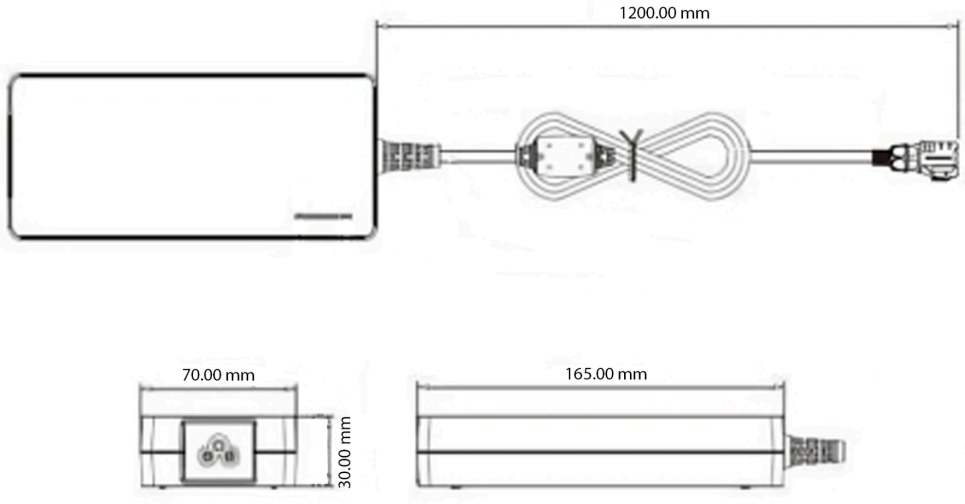


Figure 3: Battery Plus Service Power Adapter Dimensions

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