AiSIKAI®
POWER THE FUTURE

PRODUCT DATASHEET

BAC-D SERIES

DIN-RAIL MOUNTED CHARGERS

12/24V-5A 100-280 VAC



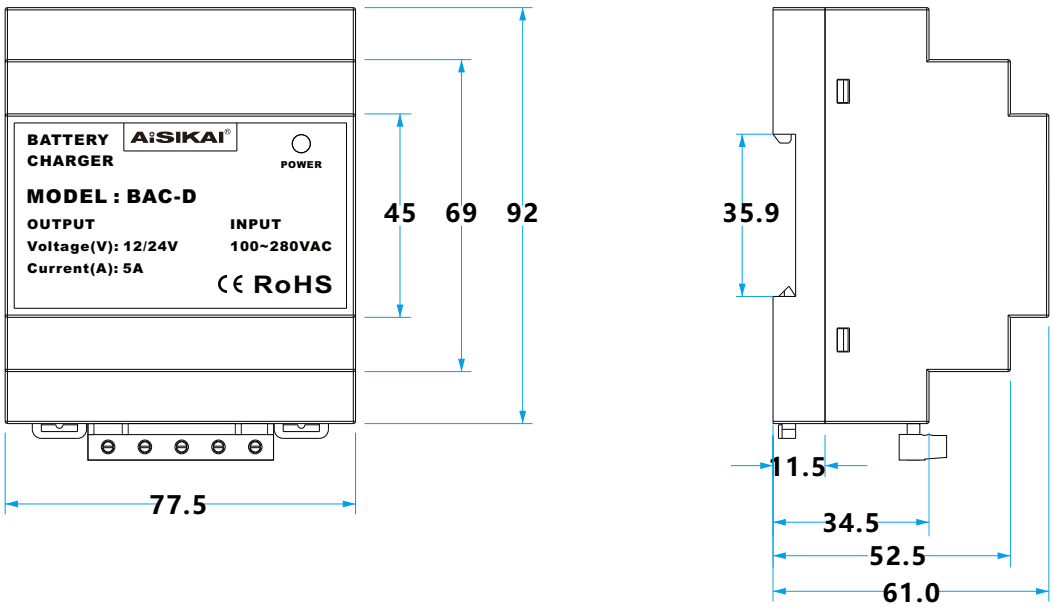
Technical Parameters

Output Voltage (Vo)	Auto-switching, **13.50** or **27.00 VDC**
Output Current (Io)	**5.0 ADC** (Continuous)
Input Voltage Range	**170-300 VAC** (Nominal Values: **220-277V**)
Input Current	Maximum **2.1** ARMS (at **170 VAC**)
Input Frequency Range	**45-68** Hz
Maximum Input Power	**< 160W**
Peak Efficiency	**> 91.5% (230VAC, 24VDC)**
Output Power	Maximum Continuous Output: **135 W**
No-load Power	**< 0.3W@230VAC/24VDC** **< 0.15W @ 230VAC/12VDC**
Overload Protection	Limits the output current to **5A**
Short-circuit Protection	Limits the output current to **5A**
Short-circuit Duration	Unlimited
High-temperature Protection	Limits the internal temperature to **85°C**
Operating Temperature Range	**-30°C** to +**80°C**
Storage Temperature Range	**-40°C** to +**80°C**
Maximum Relative Humidity	**95%** (non-condensing)
Dimensions	**77.5(W) x 92(H) x 61(D) mm**
Protection Rating	(**EN60529** Standard): **IP20**
High-temperature protection enables the equipment to operate with reduced power continuously in the following scenarios	• Environments with a maximum ambient temperature of **80°C** • Severe blockage of the control cabinet air duct
High-temperature Protection	The built-in temperature sensor locks the upper temperature limit of the circuit board interior at **85°C**. When the internal temperature reaches **85°C**, the equipment automatically reduces its output power to minimize heat generation and maintain a stable temperature. The equipment's ultimate damage temperature is **115°C**, and the **85°C** protection threshold leaves a sufficient safety margin, ensuring that high-temperature conditions have a minimal impact on the equipment's lifespan.

Product Functions

- Extremely high efficiency, up to **91.6%**
- Wide operating voltage range (**100-280VAC**)
- Reverse Battery Connection Protection
- LED Status Indicator
- Low power consumption in no-load mode
- Green Mode Operation
- Output Short-circuit and Overload Protection
- High-temperature Protection
- Lightweight
- DIN-rail mounted, compact in size
- Charger Fault Output
- Wide Operating Temperature Range
- Low Output Ripple and Noise
- Low Line and Load Regulation

Overall Dimensions (Unit: mm)



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