



12V LOW-VOLTAGE AC SMART CHARGER

IMPORTANT TRANSFORMER SAFETY INFORMATION



ATTENTION!

To ensure the safety of people and possessions, it is important that you read all of the following instructions.

Incorrect installation or incorrect use of the product could cause serious harm.

The Isolation Transformer that supplies the **12V Low-voltage AC Charger**;

- **MUST** meet all Country Regulatory Standards
 - **MUST** meet all Local Regulatory Requirements
 - **MUST** be a Safety Isolating Transformer
 - **MUST** be Double-wound
 - **MUST** be fitted with a **Thermal Fuse** on the Primary / Input of the Transformer
 - **MUST** be installed according to Country and Local Regulatory Standards
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- All installation, repair, and service work to this product must be carried out by a suitably qualified person
 - Do not install the equipment in an explosive atmosphere; the presence of flammable gases or fumes is a serious danger to safety
 - Before attempting any work on the system, turn off electrical power to the Isolating Transformer and disconnect the batteries
 - The Mains power supply of the Isolating Transformer must be fitted with an all-pole switch with contact opening distance of 3mm or greater; use of a hydraulic breaker with all-pole circuit break is recommended
 - Make sure that an earth leakage circuit breaker with a threshold of 30mA is fitted upstream of the system
 - Make sure that the earthing system is correctly constructed and that all metal parts of the system are suitably earthed

Isolating Transformer Requirements

Output Voltage	15V AC MIN (Loaded) 22V AC MAX (Unloaded/Open circuit)	
Output Current	2A MIN (@ 15 V AC = 30VA)	
Transformer Fuse Protection	Type	Rating
	Thermally Fused	According to VA rating

TABLE 1

1. Introduction

The **12V Low-voltage AC SMART Charger** was developed to complement 12V gate operators, and is ideal for residential sites.

The **12V Low-voltage AC SMART Charger** makes use of a Low-voltage AC input (15–18V AC) supplied via an isolation transformer to supply and charge the batteries of 12V gate operators.

2. Technical Specifications

Input Voltage	Low-voltage 15-18V AC 50/60Hz
Output Voltage	14.4V DC (float) +/- 1%
Output Current	1.7A +/-5%

TABLE 2

3. Product Identification

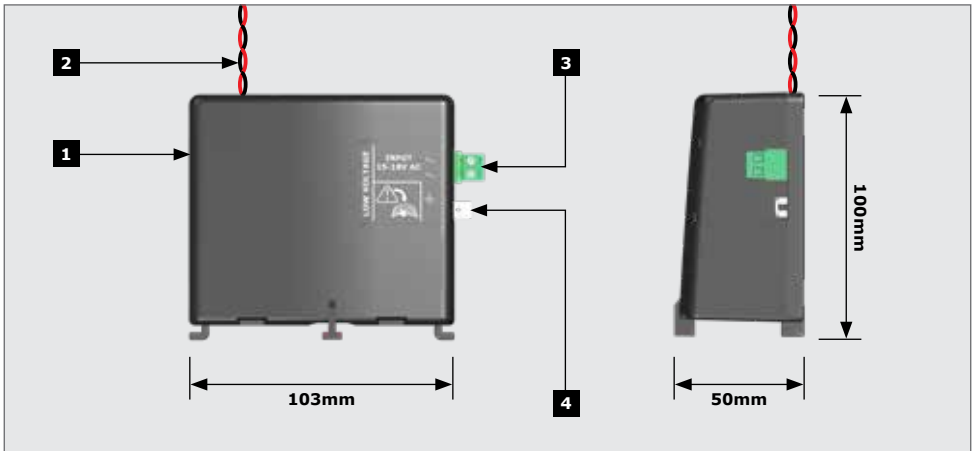


FIGURE 1

- 1. 12V Low-voltage Charger
- 2. Output
- 3. 15-18V AC Input Terminals (from transformer)
- 4. Earth Tab

4. Installation and Wiring

For Installation and wiring, please refer to the Installation Manual of the 12V Operator alongside which the Charger is to be used.

Scan the QR Code in Figure 2 to access our digital SMART Portal for quick reference to the relative Installation Manuals.



FIGURE 2