



# 24V 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 **24V 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	24V AC MIN (Loaded) 28V AC MAX (Unloaded/Open circuit)	
Output Current	2A MIN (@ 24 V AC = 50VA)	
Transformer Fuse Protection	Type	Rating
	Thermally Fused	According to VA rating

TABLE 1

# 1. Introduction

The **24V Low Voltage AC SMART Charger** was developed to complement 24V gate operators, and is ideal for residential sites.

The **24V Low Voltage AC SMART Charger** makes use of a Low Voltage AC input (24–28V AC) supplied via an isolation transformer to supply and charge the batteries of 24V gate operators.

# 2. Technical Specifications

Input Voltage	Low-voltage 24-28V AC 50/60Hz
Output Voltage	27.4V DC (float) +/- 1%
Output Current	1.7A +/- 5%

TABLE 2

# 3. Product Identification

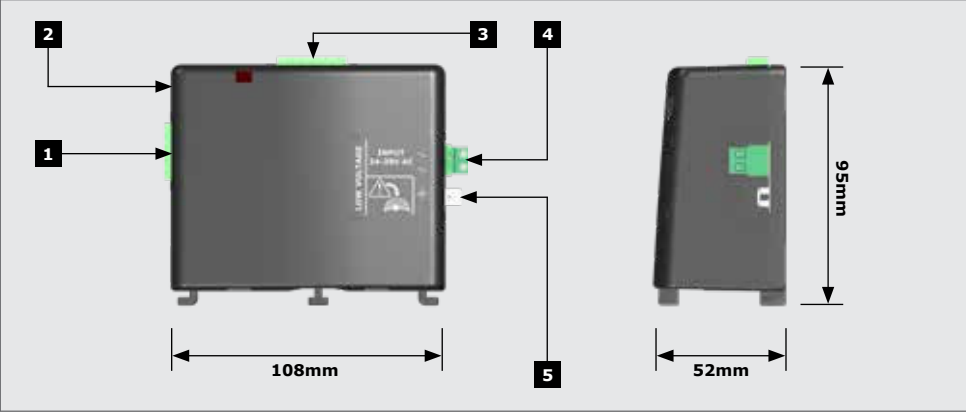


FIGURE 1

- 1. Charger to Batteries Output
- 2. **24V Low-voltage Charger**
- 3. Charger to Control Card Output
- 4. 24-28V AC Input Terminals (from transformer)
- 5. Earth Tab

# 4. Installation and Wiring

For Installation and wiring, please refer to the Installation Manual of the 24V Operator this is being installed into.

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



FIGURE 2