))((APC))((®
Automation Systems

APC V2 NUUR 6
ULTRA FAST

Made in Italy
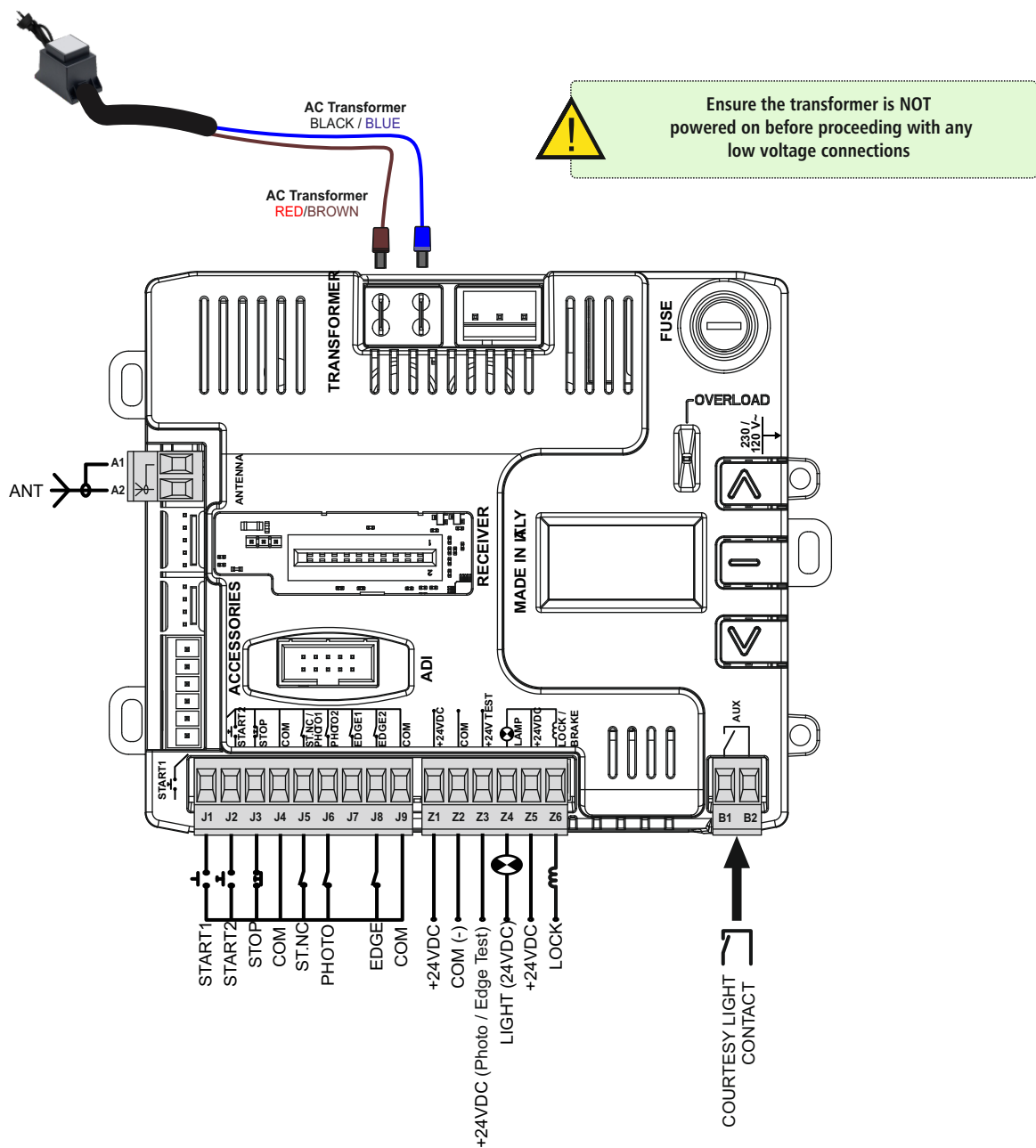
Built-In Timer

Ultra Low Power Consumption

Safe & Secure

24V CE V2))((APC))((

Remove the existing wires from the control board and replace them with the low voltage cable as shown in the Figure Below.

AC Transformer BLACK / BLUE

AC Transformer RED/BROWN

⚠ Ensure the transformer is NOT powered on before proceeding with any low voltage connections

TRANSFORMER

FUSE

OVERLOAD

230 V~
120 V~

ANTENNA

RECEIVER

MADE IN ITALY

ACCESSORIES

ADI

ANT — A1 / A2

START2
STOP
COM
ST.NC/PHOTO1
PHOTO2
EDGE1
EDGE2
COM
+24VDC
COM
+24V TEST
LAMP
+24VDC
LOCK / BRAKE

START1

J1 J2 J3 J4 J5 J6 J7 J8 J9   Z1 Z2 Z3 Z4 Z5 Z6   B1 B2

AUX

START1
START2
STOP
COM
ST.NC
PHOTO
EDGE
COM
+24VDC
COM (-)
+24VDC (Photo / Edge Test)
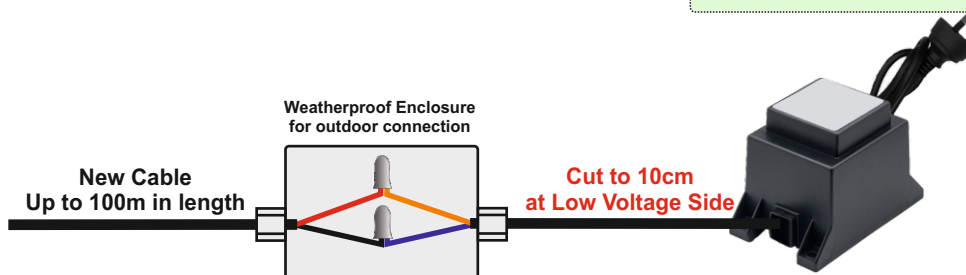LIGHT (24VDC)
+24VDC
LOCK

COURTESY LIGHT CONTACT

Extending the APC External AC Transformer (low Voltage)

Maximum cable distance: The low voltage transformer can be run up to 100m in cable distance when using a 2mm pair conductor or greater. To run the transformer to maximum capacity the cable must be cut at the LOW VOLTAGE SIDE within 10cm from the output.

**Note:** Use a weatherproof junction box to terminate the new cable to the transformer.

⚠ Ensure the transformer is NOT powered on before proceeding with any low voltage connections

Weatherproof Enclosure for outdoor connection

New Cable Up to 100m in length

Cut to 10cm at Low Voltage Side

Taking into account that the solar panels maximum cable distance is 20 metres and the maximum distance between the solar box and the gate controller is 10 metres find a suitable location for the mounting of the box accordingly.
Both the solar box and the solar panel are completely weatherproof and can be mounted in complete exposure to the elements.

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Two Core

Two Core Max. 10m (2m Supplied)

Max. 20m (5m Supplied)
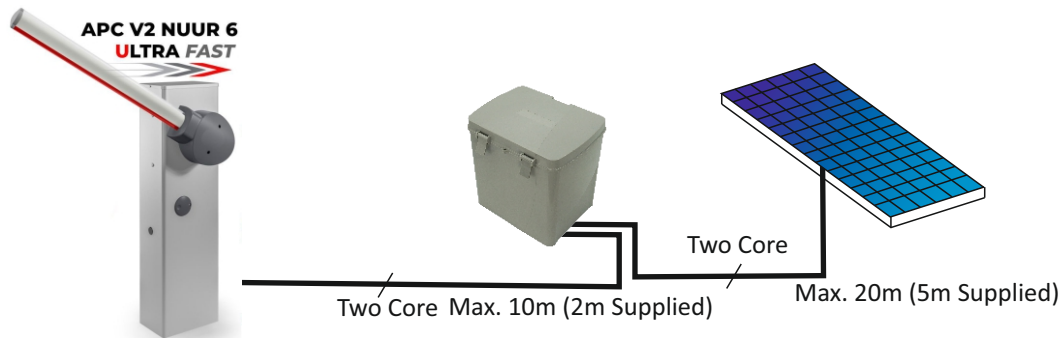
Step 1: Installing the Solar Panel

LOOSELY assemble the two clamps to the base plate.

Insert the post into the clamps and tighten.
USE the rubber cutouts around the post for best grip

Assemble the base plate to the solar panel using the supplied bolts

1.The solar panel should be installed at 45º facing mid-day to afternoon sun.

2. Assemble and install the solar panel in a place that is exposed to the sun most of the day and as far as possible from any walls or trees.

3. Make sure that the two wires of the solar panel do not touch each other at any time during installation.

4. Install the solar panel at least 2m above the ground to protect it from dust and small stones.

Solar Panel Placement

1. A solar panel CANNOT be installed under a tree, it requires sun to charge and maintain the batteries.

2. A solar system is often maintenance free BUT the batteries may require an occasional external charge in the winter months due to lack of sun.

3. Constantly powered accessories such as wired keypads will increase the standby current draw, solar panel or battery upgrades may be required if insufficient sun collection is not achieved.
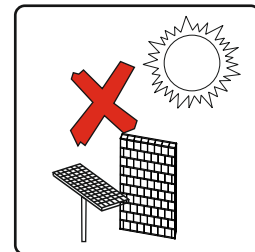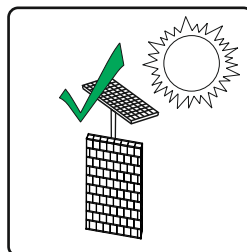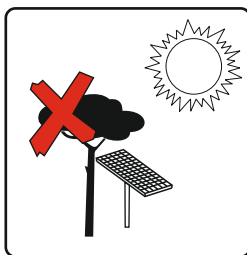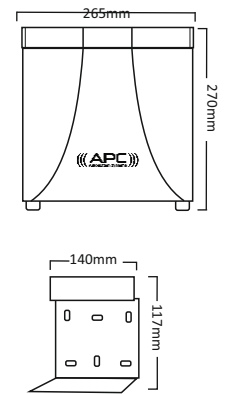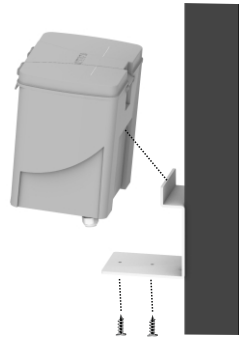
1. Install the bracket to the wall or post using the appropriate fixings whilst adhering to the maximum cable distance of 10m (note that the system is supplied with 6m).
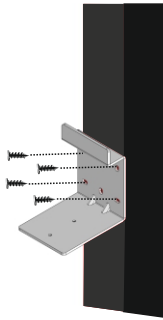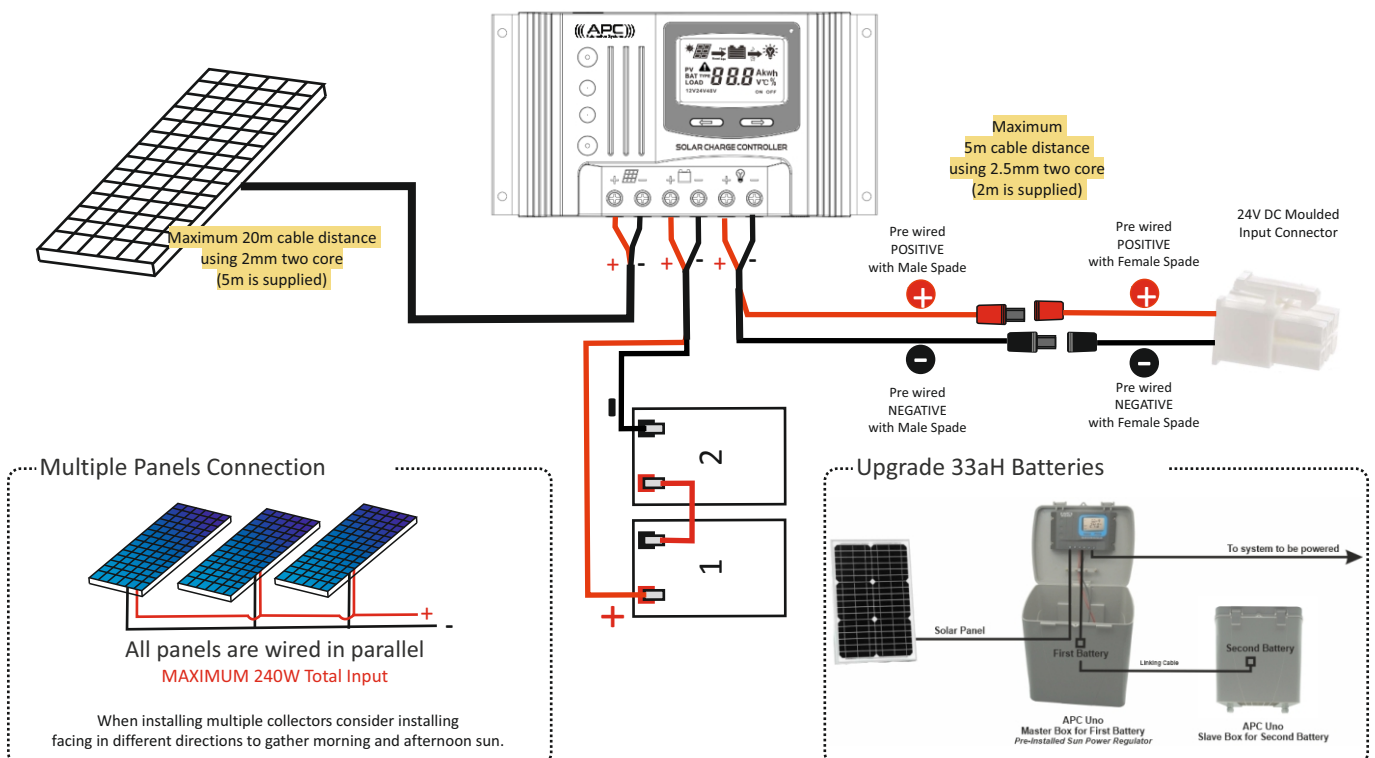
2. Position the solar box onto the installed bracket and secure in place using the two 4mm allen screws at the bottom.
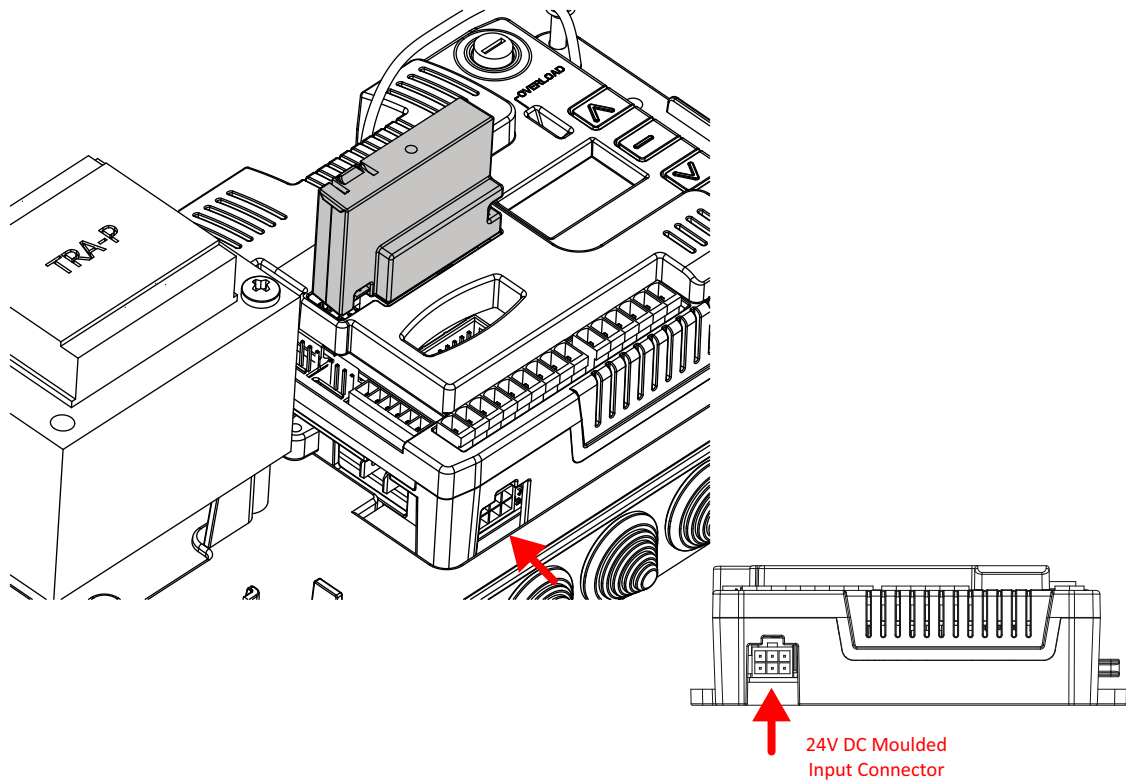

3. Wiring the System to the APC Sun Power

Taking into account that the solar panels maximum cable distance is 20 metres and the maximum distance between the solar box and the gate controller is 10 metres find a suitable location for the mounting of the box accordingly. Both the solar box and the solar panel are completely weatherproof and can be mounted in complete exposure to the elements.

1. Wire the positive and negative of the solar panel to there corresponding terminals.

2. Wire the batteries in series to create a 24V arrangement into the system and wire into the corresponding terminals. Regulator positive direct to battery 1,Regulator negative direct to battery 2,link the remaining terminal of each battery together

3. Wire the regulators load outputs to the control boards green to the 24V DC INPUT moulded connector

4. Plug the 24V DC Input Connector into the control board once ALL wiring works are completed

Maximum 20m cable distance using 2mm two core (5m is supplied)

Maximum 5m cable distance using 2.5mm two core (2m is supplied)

24V DC Moulded Input Connector

Pre wired POSITIVE with Male Spade

Pre wired POSITIVE with Female Spade

Pre wired NEGATIVE with Male Spade

Pre wired NEGATIVE with Female Spade

Multiple Panels Connection

All panels are wired in parallel
MAXIMUM 240W Total Input

When installing multiple collectors consider installing facing in different directions to gather morning and afternoon sun.

Upgrade 33aH Batteries

To system to be powered

Solar Panel

First Battery

Linking Cable

Second Battery

APC Uno Master Box for First Battery
Pre-Installed Sun Power Regulator

APC Uno Slave Box for Second Battery

24V DC Moulded
Input Connector

Step 4: Configuring the system for Energy Saving Mode

Used to reduce the current consumption of the system down to just 5mA whilst in standby enabling this feature will turn off the display of the system 30 seconds after any operating cycle or 30 seconds of being in a standby state.

Note: Energy saving mode also disables the accessories power output, this will affect induction loops, GSM systems, WiFi controllers etc. In such situations the battery system of should be selected carefully as the standby current is 30mA.

Press and hold the **OK** button for about two seconds til the screen displays PRG then immediately release

Use the UP/Down keys to cycle to EnSA then press **OK**

Use the ⬆⬇ keys to cycle to

EnSA To enable power saving mode
or
no To disable power saving mode

Now press **OK**

Use the ⬆⬇ keys to cycle to Fine then press **OK**

Cycle to Si then press **OK** to Save.
Or
Cycle to no and **OK** to cancel any changes