



SMARTCHARGE: SMARTCARD OPERATED EV CHARGING POINTS

SMARTCHARGE:

Is designed to provide an independent Smartcard controlled EV charging network ideal for corporate chains, councils and anywhere where a single Smartcard / loyalty card can be used at numerous charging locations.

The SmartCharge system allows an EV driver to be issued with a Smartcard / loyalty card, which is then used anywhere, anytime, on any EV charging station equipped with your security-coded SmartCharge card details.

For example, if you had 50 locations each having 2 charging points, the SmartCharge system would allow the EV driver to use any of the charging points in those 50 locations.

Functions and Operation:

- The host / operator is issued with a standard software and card reader / writer package and appropriate number of EV SmartCharge cards and is then able to add and refund credit to the SmartCharge card
- The SmartCharge EV charging stations are coded to suit the client's coded SmartCharge cards
- The EV driver is issued with the SmartCharge card and prepays for charging credit value which is then loaded onto the EV SmartCharge card using the card reader / writer package
- The EV driver can then transfer as much or as little credit from their EV SmartCharge card to the SmartCharge charging station and then immediately begin charging.
- In the event that the EV has been fully charged and credit is still remaining, or the EV driver needs to terminate the charging procedure, SmartCharge will allow the unused credit to be retrieved from the charging station back to the EV SmartCharge card for use at a later date or for full refund.

The SmartCharge can be applied to the following Rolec EV charging stations:

- The AutoCharge pedestal range
- The AutoCharge wall unit range
- The VoltPoint pedestal range
- The Classic 3000 pedestal range

The SmartCharge upgrade package – office-based:

- SmartCharge office-based software
- SmartCharge office-based card reader / writer bed
- SmartCharge cards

The SmartCharge upgrade package – charging stations:

- 1 x programmable PLC
- 1 x contactless RFID reader
- 1 x information display screen
- 1 x illuminated service button per charging point
- 1 x electrical contactor
- 1 x programmable charging timer per charging point

Security:

- The SmartCharge system incorporates a security protocol that prevents unauthorised use by non-approved card holders.
- The SmartCharge system has built-in security protocol that ensures that credit transferred from card to charging station can only be retrieved back to the same card therefore avoiding credit theft.



Charging Point Facilities:

- Multiple charging ability
- 16amp and 32amp IEC62196 mode 3 charging
- 16amp and 32amp J1772 mode 3 charging
- Auto disconnect function when EV fully charged
- Auto safe mode preventing charging until EV is ready
- Optional facility to lock EV charging lead into charging socket
- 13amp domestic socket mode 2 charging
- 16amp and 32amp industrial socket mode 2 charging
- RCBO overload / 30mA fault current protection
- Single and three phase charging
- Frequency 50Hz
- Optional built-in Class 1 metering

Tel: 01205 724754

Email: rolec@rolecserv.co.uk

Web: www.rolecserv.com