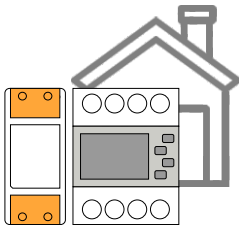


### Features

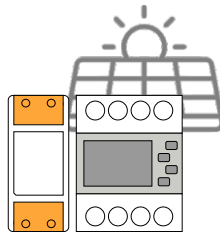
- charging profile:
  - economy - optimized for energy cost and battery life
  - priority - charge as fast as possible
- reactive load balancing, reduce charging according to household consumption
- reactive solar balancing, increase charging when solar energy is available
- scheduled load balancing, variable power limit over time
- load suspend, temporary turn off large appliances to speed up charging
- consumption peak limiter for protection against peak surcharges
- DC residual current 6mA, overvoltage and undervoltage protection
- RFID access control to allow authorized usage only
- fully autonomous operation, automatic recovery from error
- long range wireless power meter for installation without cabling
- fully compliant with IEC 61851

### Components



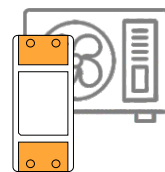
WPM-H

wireless power meter  
household consumption



WPM-S

wireless power meter  
solar production



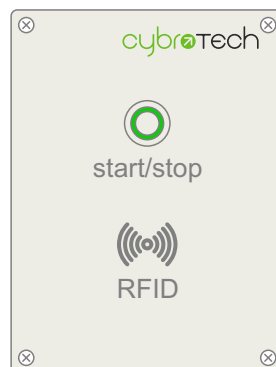
WR-1

wireless relay  
turn appliances on/off



RFID

access control



charger

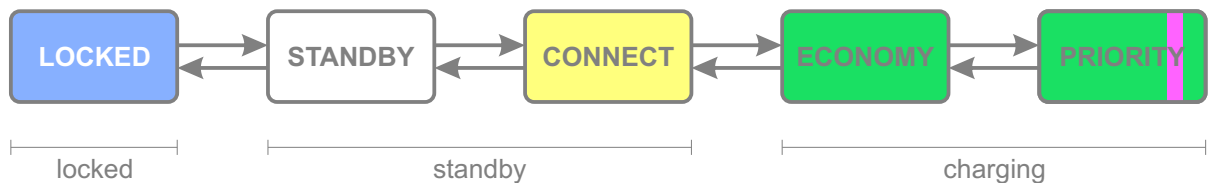
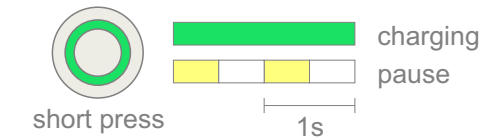


C: Type 2 connector + cable



# Operation

- connect vehicle to charging station, charging starts automatically
- press button to stop charging (slow blinking), press again to restart
- press and hold button to activate priority charging (purple blinking)
- adjust configuration parameters using PC computer or mobile app
- enable RFID system to lock/unlock charging station with your card
- hold button and power up to reset all parameters to factory default

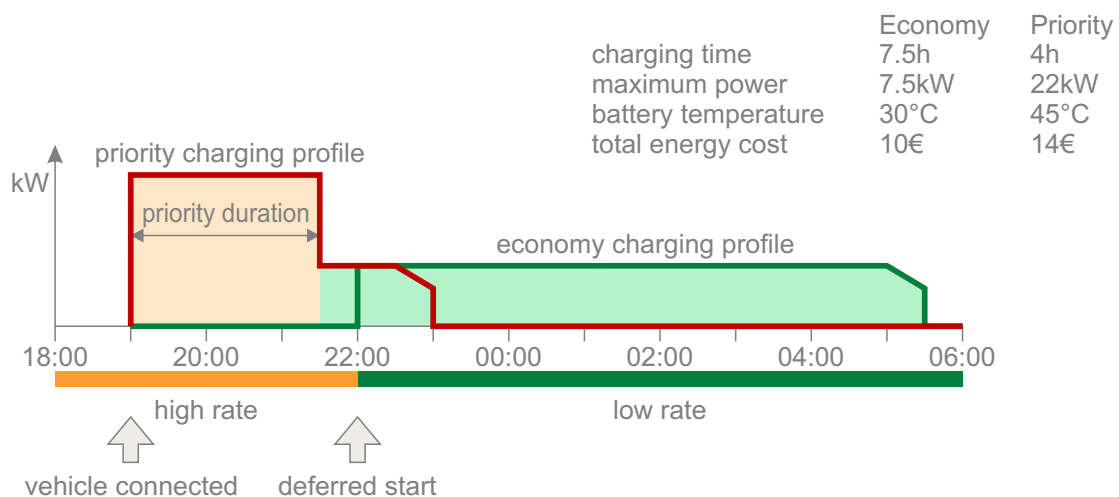


## Economy charging profile

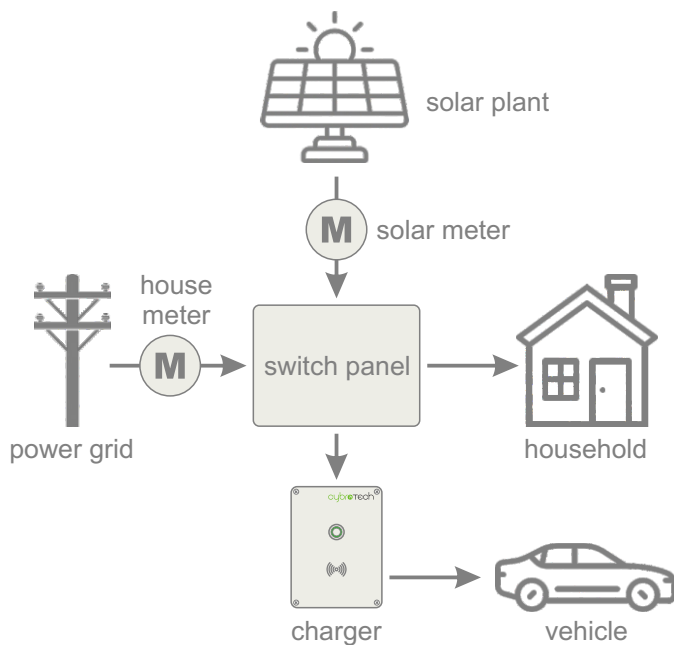
- optimized for energy cost and battery life
- adjustable start time to take advantage of low rate electricity
- limited charging current to reduce battery temperature and extend service life

## Priority charging profile

- utilize all available power to charge as fast as possible
- temporary suspend high-power loads such as heat pump, electric boiler and air conditioner
- after configured time, priority profile returns back to economy



## Power distribution



### Configuration parameters

#### power grid limit

The maximum current available from the grid.

#### economy current limit

The maximum current that the charger can draw in economy charging profile.

#### economy start time, economy stop time

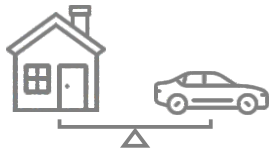
Period with low rate electricity.

#### priority duration

The time in minutes after which the priority charging profile switches back to economy.

#### overvoltage limit, undervoltage limit

Charging stops when supply voltage is out of range.



### Reactive load balancing (WPM-H option)

- reduce charging current according to household consumption
- prevents fuse trip when combined consumption is too high
- long range wireless power meter for easy installation



### Reactive solar balancing (WPM-S option)

- start charging whenever there is a surplus of solar energy
- suitable for systems where solar inverter is connected to the home network
- long range wireless power meter for easy installation



### Load suspend (WR-1 option)

- temporarily turn off large appliances to allow maximum charging current
- long range wireless relay for easy installation



### RFID access control (RFID option)

- use RFID card to unlock and start charging process
- simple card management, adding and removing cards

Order code

EVC-332C-RFID

Device

Electric Vehicle Charger

Model

332 - 3x 32A (22kW)

Connection

C - Type 2 connector + cable

Options

RFID - card reader 125kHz  
MIFARE - card reader 125kHz/13.56MHz  
QR - QR code reader

WPM-H

Device

WPM wireless power meter

Position

H - household (modbus address 1)  
S - solar (modbus address 2)

WM-1

L1 L2 L3 N

L1 L2 L3 N

WR-1

Device

WR-1 wireless relay (modbus address 200)

WR-1

thermostat

WR-1 relay

heat pump

10A 250Vac

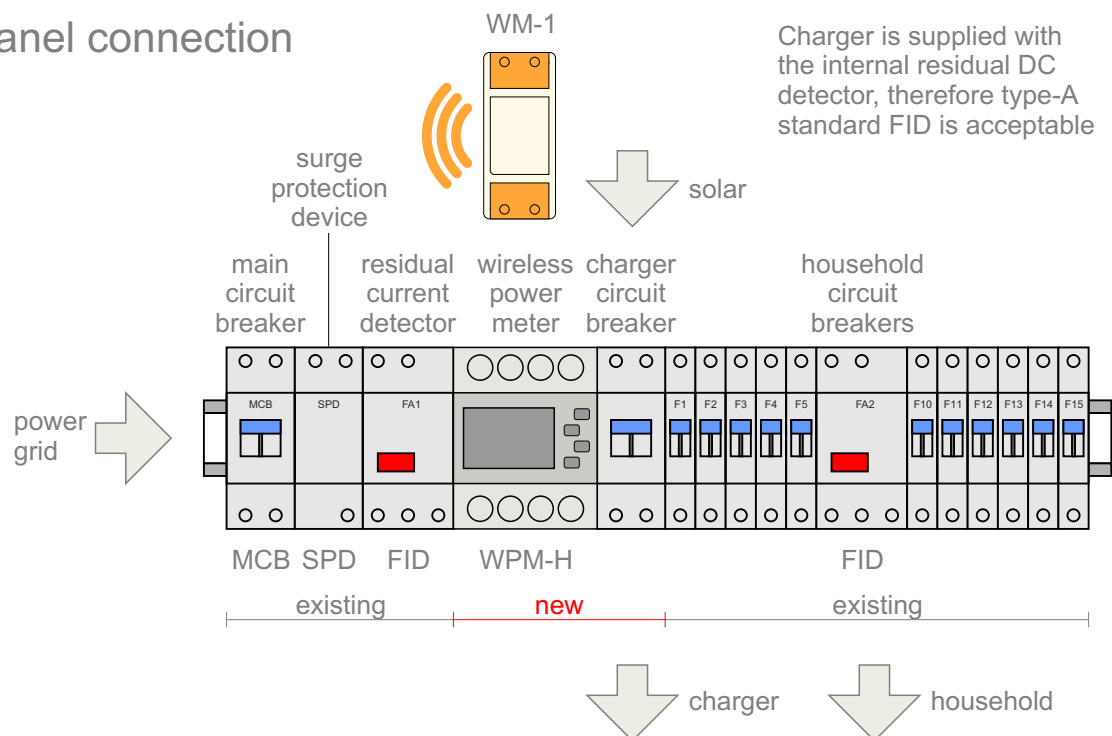
NO

C

NC

WR-1 suspends large appliances to preserve energy for charging.

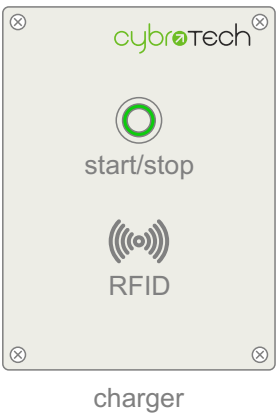
# Switch panel connection



## Frequency subband

865.0-868.6	868.7-869.2	869.3-869.4	869.4-869.6	869.7-870.0
1%	0.1%	1%	10%	100%
25mW	25mW	10mW	500mW	5mW

Device uses L subband, which allows 1% utilization and 25mW output power



When single-phase power supply is used, connect live wire to the L1 input.

## Technical specifications

### Electrical parameters

Nominal voltage	1x230Vac, 50/60Hz 3x230/400Vac, 50/60Hz
Maximum current	1x32A or 3x32A
Connector/socket	Type 2, 5m cable
Standby consumption	4W

### Remote meter

Nominal voltage	3x230/400Vac
Maximum current	3x100A

### Radio interface

Frequency band	868MHz
Subband	L 866.8MHz, 1% utility, LBT
Modulation	FSK, 160kHz bandwidth
Output power	25mW
Operating range	300m with optical visibility

### Network connection

Ethernet	100M RJ45
Wi-fi	802.11 b/g/n

### Mechanical and environment

Ingress protection	IP65
Impact resistance	IK10
Operating temperature	-20°C to +50°C
Storage temperature	-40°C to +80°C
Dimensions WxHxD	22x32x14cm
Mounting WxH	4xM5 wall mount
Warranty	24 months

### Safety

Insulation	1200Vac
Charging pilot negative	1mA, 20ms reaction time
Residual direct current	6mA, 200ms reaction time
Standards	EN 61851-1, EN 300 220-2, EN 301 489-1, EN 301 489-3