ELECTRIC VEHICLES CHARGING SYSTEM

The Models **AXIS. T *Small***, ***Medium*** and ***Large*** are a range of domestic wall-mounted chargers for electric vehicles, with increasing levels of management and integration.

Model Axis.T S - Lite: Usable in stand-alone mode; the charging starts automatically when the connector is inserted. The maximum power that can be supplied when the electric vehicle is charged is set using a potentiometer located in the wall-box; its correct setting allows to avoid the triggering of the user's main switch because of the exceeding of the power contracted.

Model Axis.T M - Complete: Usable in stand-alone mode; the charging starts automatically when the connector is inserted. The maximum power that can be supplied when the electric vehicle is charged is set using a potentiometer located in the wall-box. In addition, a real-time control is used for automatic self-limiting of the power supplied during recharging, depending on the power consumed by other consumers in the house; this prevents the triggering of the user's main switch due to exceeding of the subscribed power.

Model Axis.T L - Ultra: It represents a real integration of the wall-box **Axis.T** with a storage system **Aton Storage**, for a **Smart** management of the most complete charging process, depending on the "scenario" chosen by the user and the time or energy parameters' setting.

v.1/2018

This takes place in an **"EV" menu dedicated to the charging of electric vehicles**, present in the **Aton Storage** APP for the management of the accumulation system by the user. With this application, the **Aton** accumulation system becomes the energy manager of the house, enabling the activation of special or standard functions. These include the **Charging functions of the electric vehicle, which can be selected from the menu "EV"**:

ECO: This function recharges the vehicle battery only from the battery of the accumulators and photovoltaic plant if in production, with a defined load power;

NORMAL: This function recharges the vehicle batteries from the battery (and possibly the photovoltaic plant) and the network, with a defined recharge power, and with self-limited power intake from the network to the charger according to the power absorbed by other consumers and the subscribed power.

FULL: This function recharges the vehicle from the batteries of the accumulator (and possibly photovoltaic plant) and the network, to the maximum possible recharging power (the lower of the maximum power that Axis. T can deliver and the maximum power that the vehicle can absorb), with auto-limitation of the network load for recharging according to the power absorbed by other consumers and the subscribed power.

BY-PASS: This function recharges the vehicle only from the network with a defined charge power, preserving the energy in the batteries.

All functions can be defined by the user; the management system will decide on energy use strategies to leave the batteries in the optimum state of charge for the type of function and the time interval during which the vehicle is to be recharged.

All functions prevent the recharge of the vehicle from causing the triggering of the main switch because of exceeding the subscribed power.

ATON S.r.l. Legal address: Via Nuova Circonvallazione, 57/B - 47923 Rimini (RN)
Sede Operativa: Via Guido Rossa, 5 - 41057 Spilamberto (MO) - Tel: +39 059/783939 Fax: +39 059/784323
E-mail: info@atonstorage.com Sito web: www.atonstorage.com

v.1/2018

ATON S.r.l. Legal address: Via Nuova Circonvallazione, 57/B - 47923 Rimini (RN)
Sede Operativa: Via Guido Rossa, 5 - 41057 Spilamberto (MO) - Tel: +39 059/783939 Fax: +39 059/784323
E-mail: info@atonstorage.com Sito web: www.atonstorage.com

The system includes

TELEASSISTANCE Telecontrol System via web **free for the lifespan of the device**

Monitoring System Via **App** Viewable on PC, tablet and smartphone for both the installer and the user **Free** for the lifespan of the device

WARRANTY - **10 years on the complete machine** Linked to Telecontrol via web

COLOUR - Several colours available

v.1/2018

Technical Data Sheet

Model *Axis.t*	S - *Small*	M - *Medium*	L - *Large*
General Characteristics			
Network voltage	400 VAC Three phase / 240 VAC single phase		
Network frequency	50Hz		
Number of connectors	1		
Energy meter MID	no	optional	optional
RCM Sensor for network security	optional		
Electric protection	IP44		
Installation	indoor, only for private use (°)		
Working temperature	from -5°C to +50°C		
Dimensions	L 340mm x H 650mm x W 172mm		
Weight	10 kg		
CE conformity	yes		
Charging Unit			
Max Delivered Power	22kW three-phase / 7,4kW single phase		
Max delivered power controller	potentiometer	potentiometer	No
Auto limiting of Max delivered power	No	yes	yes
Recharge Control by User	No	No	with App (*)
Connector type	Type 2 Plug / Type 2 Socket with cable		
Recharge mode	Mode 2 / Mode 3		
Electrical protection of connector	IPXXB		
Mechanical connector retention	Yes	Yes	yes
Protocol PWM	IEC 61851-1		
Charging start	At insertion		
(*) Usable only with storage systems Aton Green Storage : See model description *Axis.t Large*			

(°) The Models Axis.t S, M and L are not usable to deliver a public recharge service or open to third parties
(°) The models Axis.t S, M and L do not provide V2H service ("Vehicle-to-Home") or V2G ("Vehicle-to-Grid")

v.1/2018

ATON S.r.l. Legal address: Via Nuova Circonvallazione, 57/B - 47923 Rimini (RN)
Sede Operativa: Via Guido Rossa, 5 - 41057 Spilamberto (MO) - Tel: +39 059/783939 Fax: +39 059/784323
E-mail: info@atonstorage.com Sito web: www.atonstorage.com

v.1/2018