Region-specific ready-to-use communication network

EMS is provided with the communication equipment needed at the local end and, therefore, requires no installation of expensive equipment room or any cabinet at the site. It is flexible, and works independently. All that is needed is a laptop to work on the data network with high performance in real time.

Product features

Flexible structure and modular design

Easy system expansion as needed at the site; all information and communication hardware and software easily integrated in one single piece of equipment for centralized management.

Plug and play for quick introduction

Box design to provide protection of internal equipment against collision and dusts, and multiple connection points for quick plug-and-play.

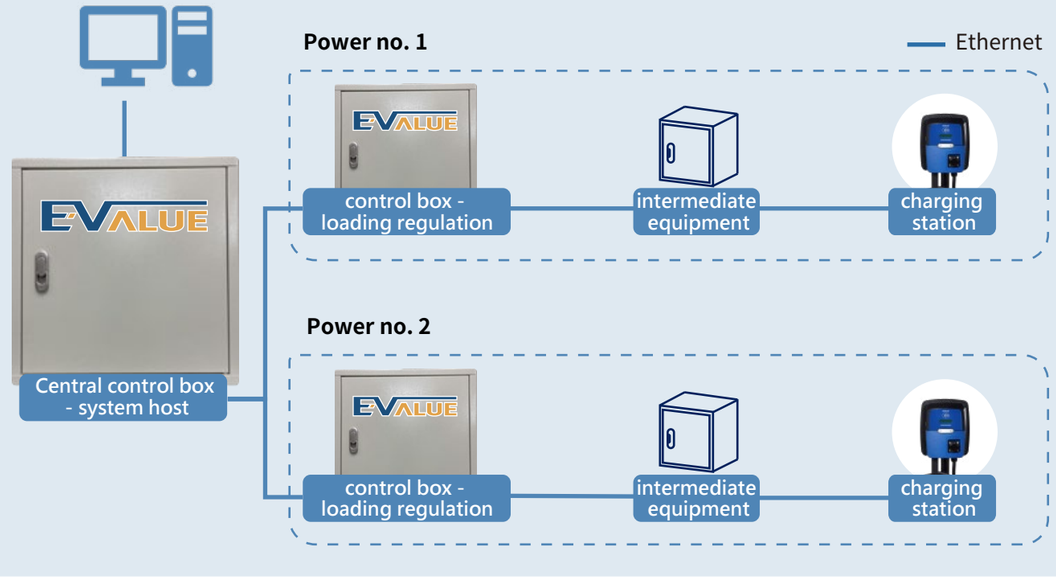
Independent operation for cost-effectiveness

The combination of control box and high-performance computing equipment eliminates the need of equipment room or cabinet at the site. Only a computer is needed to get online to monitor power meters.

Application

The EV time and power bill and regional charging station management system allows the manager to browse through charging station power info and charging records in real time. Communication equipment and power cables are installed at the site based on local power distribution in an aesthetic, neat, centralized and compact fashion.

A user account is established for multiple power numbers at a single site, and combined with EMS for a communication distance <200M.



Hardware overview

Central control box: contains a central control computer and exchanger; the former has an integrated management system and stores data from control boxes. The central control box connects up to 6 pieces of intermediate equipment.

Control box: contains a controller and switch as a node for power number capacity settings, distribution commands and data transmission. A control box connects up to 8 pieces of intermediate equipment.

Intermediate equipment: an exchanger to transmit charging station data to control box. A piece of intermediate equipment connects up to 15 charging stations.

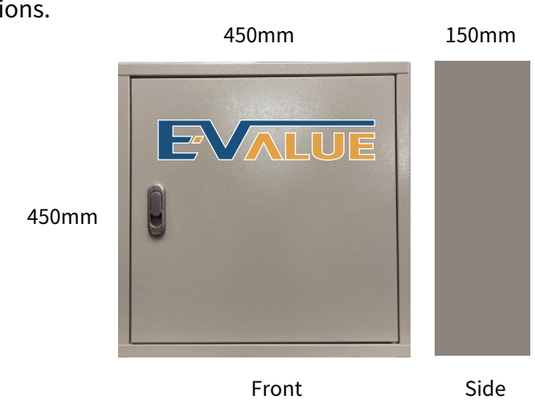
FAQs:

Q: What is the minimum installation?

A: a central control box combined with a control box connects up to 15 charging stations.

Q: How many charging stations can be connected?

A: up to 960 charging stations can be connected to a cross-level central control system.



Specification

Model		SCBS-C01	SCBS-C02	SCBS-EC01	SCBS-FC01
Overview		**Single-level central control**	**Cross-level central control**	**Regional control, Ethernet version**	**Regional control, optical fiber version**
Basics					
Operating voltage		110/220 V			
Dimensions (W*H*D)		450*450*150 mm			
Operating temperature		-20 ~ 60°C			
Operating humidity		0-80% RH			
Technical specs					
Communication interface		Ethernet RJ45			
Communication protocol		Ethernet			
No. of RJ45 connections		8 port	2 port (GbE Combo)	8 port	2 port (GbE Combo)
Optical fiber SFP	100M	-	8 port	-	8 port
	1000M		2 port (GbE Combo)		2 port (GbE Combo)
Other ports supported		USB, RS-232, I/O		RS-485	
Protection feature		Electricity leakage breaker			
Memory		8 GB		2 GB	
Storage		1 TB		-	

EMS software architecture

System overview

EMS is light-weight, expandable, quick to deploy and fully functional. It is perfect for communities and private residences where there are fixed parking spaces. The system is established on intranet environment.
Protection for site data security

- Preparation for installation: client to provide network environment and a computer
- Cloud management across multiple sites is not available
- System login through a login webpage and a web browser; Chrome as the default browse

The five functional modules

- Info dashboard: charging and power use overview
- Charging management: user card registration and dynamic load programming
- Billing management: power billing, card points programming
- Historical info: queries of power usage records for individual charging station
- Access management: login with an administrator account

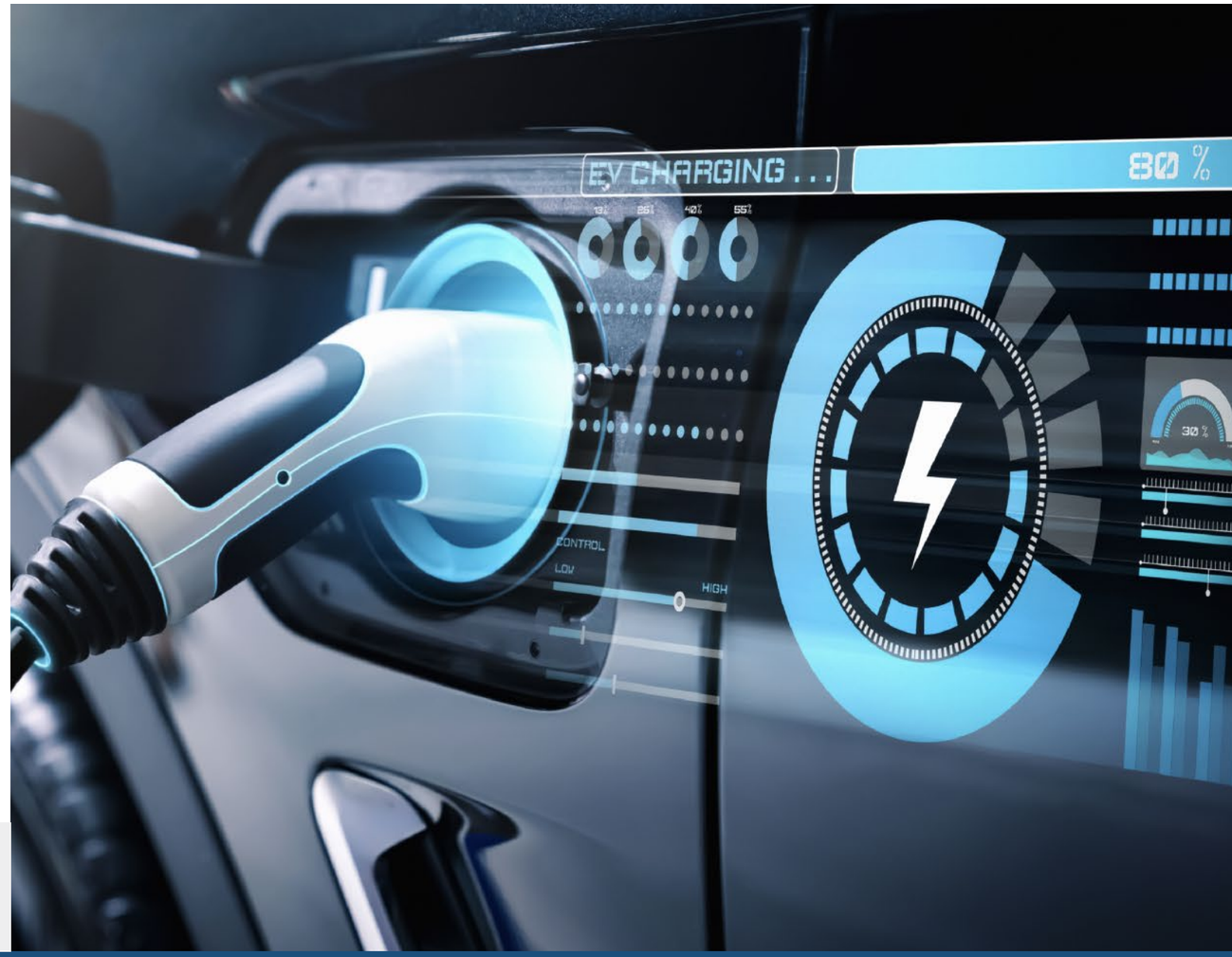
Integrated system functions

- Dynamic charging station regulation: optimized algorithms
- Total contract capacity cap: no exceeding contract
- Distribution board capacity cap: optimized power distribution
- Communication control for multiple manufacturers: supports multiple manufacturers
- User card billing: for easy account balancing

EMS
Energy Management System

Real-time power monitoring, Power usage limit management, Charging station load balancing, and TPC contract capacity regulation

existing communities / new development projects / property management / corporate clients



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