

EVDS series integrated outdoor DC charging station

Application: Off-board fast DC charging machine such as electric cars, engineering vehicles and coaches.



Overview:

EVDS series charging station is an intelligent integrated DC charging station system promoted by SICON to meet market demands. It adopts advanced modular design concept and cutting-edge electronic circuit technology. It consists of controlling unit, power distribution units, and power modules.

- Wide range of AC output voltage, high suitability of utility grid, three phase three wire input without null line in the rectifier unit.
- Has the function of protocol self-recognition, can realize the charging for all type of vehicles.
- LCD touching screen, friendly UI, easy to operate.
- Emergency protection and alarming function, including over voltage, under voltage, over current, over temperature, phase missing, output short- circuit, leakage protection and so on.
- Charging protection function, the charging process will suspend immediately when BMS communication faults, disconnection, over temperature and over voltage occur.
- Emergency stop function, the charging process can be suspended immediately by emergency stop switch.
- with multiple communication interface such as CAN、RS485/ RS232、Ethernet, 3G,4G wireless connect to management platform,
- Has insulation monitoring function, automatically turns off the output to ensure safe charging when insulation level is low.
- High efficiency, high reliability, ultralow radiation, fast maintenance, flexible capacity expansion, energy efficiency and environmental protection.

Feature:

Floor Stand DC Charging station:



- power: 30KW-120KW, single, double or quad outlets.
- thin Cabinet, only 450mm,small footprint, easy to put and install.
- One station can charge multiple vehicles, and take turns to charge automatically according to time or changing power.
- High adaptability of temperature range, has isolated heat dissipation air ducts. Power heat dissipation is separated from control circuit to ensure dust-free control circuit.

Wall-mounted DC charging station:



- The system designed with wall-mounted structure.
- Small size, easy to install.
- Apply to home, or community parking.

Mobile DC charging station:



- Small size , easy to carry around.
- With castor, move the station close to car and then charge.
- Apply to emergency charging.

Specification:

	Floor Type DC Station				Mobile DC Station		Wall-mounted DC Station
Model	EVDS-500/120	EVDS-500/90	EVDS-500/60	EVDS-500/30	EVDS-500/30M	EVDS-500/15M	EVDS-500/15W
	EVDS-700/120	EVDS-700/90	EVDS-700/60	EVDS-700/30	EVDS-700/30M	EVDS-700/15M	EVDS-700/15W
	EVDS-750/120	EVDS-750/90	EVDS-750/60	EVDS-750/30	EVDS-750/30M	EVDS-750/15M	EVDS-750/15W
System capacity	120KW	90KW	60KW	30KW	30KW	15KW	15KW
Module capacity	15KW						
Input							
Input voltage	380Vac						
Range of input voltage	260V~530V (260V-304VAC, output power derating 50%)						
Working frequency	50/60Hz						
Voltage regulation accuracy	< 3%						
Power factor	≥ 0.99						
Inrush starting current	≤110% working max current						
Output							
Output voltage	200VDC-500VDC / 300VDC-750VDC						
Voltage regulation accuracy	≤ 0.5%						
Current regulation accuracy	Current≥30A , ≤1% ; Current<30A , ≤0.3A						
stabilized current precision	≤ 1%						
stabilized voltage precision	≤ 0.5%						
Peak-to-Peak noise voltage of DC output	≤ 0.5%(0MHz ~ 20MHz)						
Soft start time	3~8s						
Overall efficiency	≥ 95%						
BMS auxiliary power supply	12V/10A						
communication mode	Ethernet、CAN/RS485、3G/4G						
Charging mode	Auto or Manual						
Protection degree	IP55 (outdoor)						
Acoustic noise	≤ 50dB						
Operating temperature	-20°C ~60°C						
Operating humidity	≤ 95% non-condensing						
Altitude range	2000 meter; derating above 2000 meter.						
Dimension (W*D*H)	960*450*1950	600*450*1850	450*450*1750	440*435*940	850*245*450		