SOLTERRA™

EV CHARGERS

FAST EFFICIENT FUTURE

www.solterratech.com

Applications

E-mobility

Aquatic Power Supply

Mobile Elevated Platforms

Electric Vehicles

Floor Care

Golf Cars

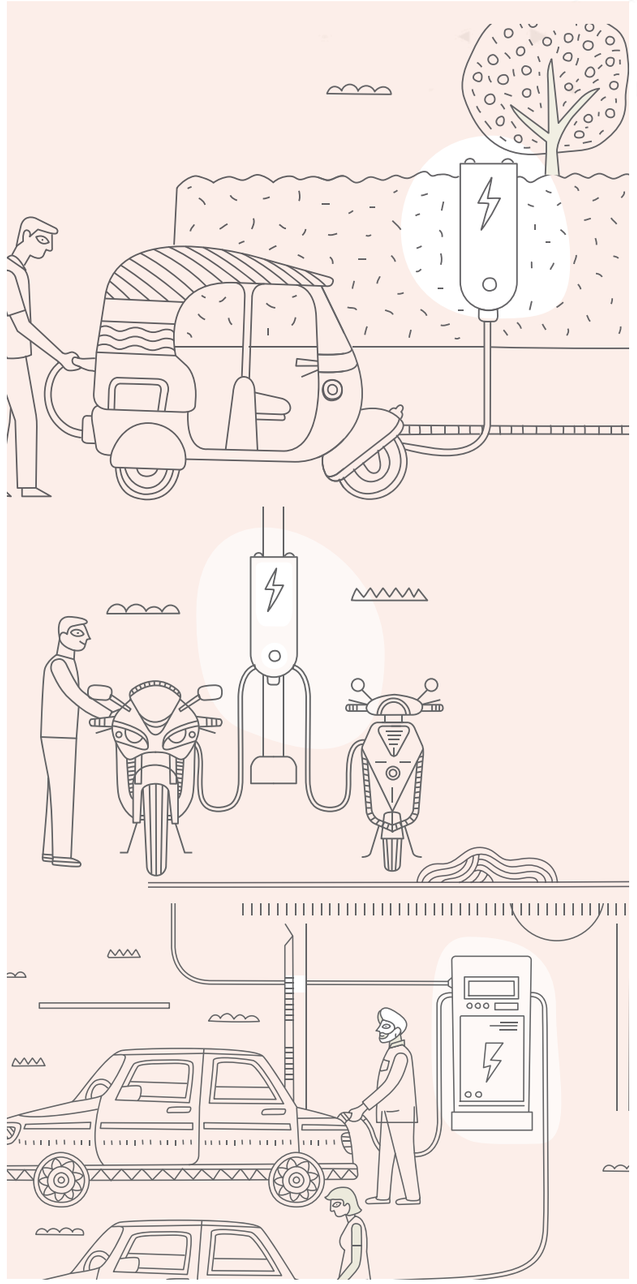
Mobile Robots & AGV

Material handling

Outdoor Power supply

ATV&UTV

Leisure & Entertainment



SOLTERRA™
EV CHARGERS

Who We Are

We are seasoned experts and trailblazers in the EVSE and EV industry, with a combined experience of over 80 years across Hardware, Mechanical, Software, and Systems domains. Our mission is to lead the charge in redefining energy conversion. Our vision is a future where we deliver seamless, end-to-end solutions from energy generation to storage. While we begin our journey with the EV and Mobility sectors, our ambition knows no bounds. This is just the start of a transformative path toward a sustainable and empowered tomorrow.

What We do

We deliver comprehensive end-to-end solutions for Power & Energy Systems and EV charging requirements. Backed by a team of deep-tech experts, we support you throughout the entire product development process. Our focus is on pioneering a new generation of DC fast chargers and innovative EV charging solutions, addressing the most critical challenges in EV adoption. Together, we aim to accelerate the transition to sustainable energy and usher in a future beyond fossil fuels.

Our Strengths

We specialize in the development and production of EV chargers for passenger and commercial vehicles, including two-wheelers, three-wheelers, and four-wheelers. Our comprehensive solutions cater to private vehicle owners, fleet operators, battery OEMs, automotive OEMs, and charging network operators. With expertise in deep-tech design, strategic consultancy, contract manufacturing, global sourcing, and OCPP software solutions, we deliver unmatched value to our clients. Trusted by leading players across industries, we provide cutting-edge technology and innovative solutions tailored to meet the unique demands of each market segment.

AC-DC 6kW Power Supply

ST100-06K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter equipment
- **EV CHARGING LEVDC**

Specifications

Items		Parameters		
DC output	Module type	ST48-06K	ST120-06K	ST150-06K
	Rated output power	6kW		
	Rated output current	100A	100A	40A
	Output voltage range	20Vdc~68Vdc	30Vdc~120Vdc	50Vdc~150Vdc
	Efficiency	≥94%		
AC input	Rated input voltage	Single phase 220Vac		
	Input voltage range	187Vac～300Vac (full load) , 85Vac～187Vac (linearly reduction to half load)		
	Input current	＜40A		
	Frequency	45Hz～65Hz		
	Power factor (PF)	≥0.99		
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output		
	Storage temperature	-40℃～75℃		
	Relative humidity	0～95%		
	Altitude	2000m Full Load Output		
Reliability	MTBF	＞120000 hours		
Dimension and weight	Dimension	~306.5（L）× 121（W）× 41.5（H）mm		
	Module net weight	2.7kg		
Communication and alerting	Communication interface	CAN		
Heat dissipation	Heat dissipation method	Fan forced air cooling		

SOLTERRA TECHNOLOGIES

AC-DC 6kW High Voltage

ST750-06K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter
- IDC digital computer room

Specifications

Items		Parameters		
DC output	Module type	ST240-06K	ST336-06K	ST750-06K
	Rated output power	6kW		
	Rated output current	20A	15A	8A
	Output voltage range	200Vdc-300Vdc	280Vdc-415Vdc	200Vdc-750Vdc
	Efficiency	≥94%		
AC input	Rated input voltage	Single phase 220Vac		
	Input voltage range	187Vac～300Vac (full load) , 85Vac～187Vac (linearly reduction to half load)		
	Input current	＜40A		
	Frequency	45Hz～65Hz		
	Power factor (PF)	≥0.99		
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output		
	Storage temperature	-40℃～75℃		
	Relative humidity	0～95%		
	Altitude	2000m Full Load Output		
Reliability	MTBF	＞120000 hours		
Dimension and weight	Dimension	~306.5（L）× 121（W）× 41.5（H）mm		
	Module net weight	2.7kg		
Communication and alerting	Communication interface	CAN		
Heat dissipation	Heat dissipation method	Fan forced air cooling		

AC-DC 10kW Power Supply

ST100-10K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter equipment
- **EV CHARGING LEVDC**

Specifications

Items		Parameters		
DC output	Module type	ST60-09K	ST120-10K	ST150-10K
	Rated output power	9kW	10kW	
	Rated output current	150A	100A	75A
	Output voltage range	20Vdc~68Vdc	30Vdc~120Vdc	50Vdc~150Vdc
	Efficiency	≥95%		
AC input	Rated input voltage	Three-phase 380Vac/480Vac		
	Input voltage range	323Vac～520Vac (full load) , 323Vac～260Vac (linearly down to half load)		
	Input current	< 20A		
	Frequency	45Hz～65Hz		
	Power factor (PF)	≥0.99		
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output		
	Storage temperature	-40℃～75℃		
	Relative humidity	0～95%		
	Altitude	2000m full load output		
Reliability	MTBF	> 120000 hours		
Dimension and weight	Dimension	396（L）×130（W）×84（H）mm | 240(W) x 49 (H) x 380 (L)		
	Module net weight	7kg		
Communication and alerting	Communication interface	CAN		
Heat dissipation	Heat dissipation method	Fan forced air cooling Model | Water Cooled or Independent Air Duct		

SOLTERRA TECHNOLOGIES

AC-DC 10kW High Voltage

ST750-10K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter
- IDC digital computer room

Specifications

Items		Parameters		
DC output	Module type	ST240-10K	ST336-10K	ST750-10K
	Rated output power	10kW		
	Rated output current	33A	25A	20A
	Output voltage range	200Vdc~300Vdc	280Vdc~415Vdc	200Vdc~750Vdc
	Efficiency	≥95%		
AC input	Rated input voltage	Three-phase 380Vac/480Vac		
	Input voltage range	323Vac～520Vac (full load) , 323Vac～260Vac (linearly down to half load)		
	Input current	< 20A		
	Frequency	45Hz～65Hz		
	Power factor (PF)	≥0.99		
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output		
	Storage temperature	-40℃～75℃		
	Relative humidity	0～95%		
	Altitude	2000m full load output		
Reliability	MTBF	> 120000 hours		
Dimension and weight	Dimension	396（L）×130（W）×84（H）mm		
	Module net weight	7kg		
Communication and alerting	Communication interface	CAN		
Heat dissipation	Heat dissipation method	Fan forced air cooling		

AC-DC 20kW Power Supply

ST100-20K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter equipment

Specifications

Items		Parameters	
DC output	Module type	ST120-20K	ST200-20K
	Rated output power	20kW	
	Rated output current	200A	100A
	Output voltage range	30Vdc~120Vdc	60Vdc~200Vdc
	Efficiency	≥95%	
AC input	Rated input voltage	Three-phase 380Vac/480Vac	
	Input voltage range	323Vac～520Vac (full load) , 323Vac～260Vac (linearly down to half load)	
	Input current	< 40A	
	Frequency	45Hz～65Hz	
	Power factor (PF)	≥0.99	
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output	
	Storage temperature	-40℃～75℃	
	Relative humidity	0～95%	
	Altitude	2000m full load output	
Reliability	MTBF	> 120000 hours	
Dimension and weight	Dimension	224（W）×84（H）×396（L) mm	
	Module net weight	9.3kg	
Communication and alerting	Communication interface	CAN	
Heat dissipation	Heat dissipation method	Fan forced air cooling	

AC-DC 20kW High Voltage

ST750-20K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter
- IDC digital computer room

Specifications

Items		Parameters		
DC output	Module type	ST240-20K	ST500-20K	ST750-20K
	Rated output power	20kW		
	Rated output current	66A	60A	40A
	Output voltage range	200Vdc-300Vdc	200Vdc-500Vdc	200Vdc-750Vdc
	Efficiency	≥95%		
AC input	Rated input voltage	Three-phase 380Vac/480Vac		
	Input voltage range	260Vac～323Vac (derating) , 323Vac～530Vac (full load)		
	Input current	≤40A		
	Frequency	45Hz～65Hz		
	Power factor (PF)	≥0.99		
Working environment conditions	Working temperature	-40℃～+50℃ (full load operation), +50℃～+75℃ (derating output)		
	Storage temperature	-40℃～+75℃		
	Relative humidity	0~95%, no condensation		
	Altitude	≤2000m (full load output)		
Reliability	MTBF	≥120000 hours		
Dimension and weight	Dimension	224（W）×84（H）×396（L) mm		
	Module net weight	9.3kg		
Communication and alerting	Communication interface	CAN		
Heat dissipation	Heat dissipation method	Fan forced air cooling		

DC-DC 10kW Power Supply

STDR100-10K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter equipment

Specifications

Items		Parameters		
DC output	Module type	STDR48-09K	STDR100-10K	STDR150-10K
	Rated output power	9kW	10kW	
	Rated output current	150A	100A	75A
	Output voltage range	20Vdc~60Vdc	30Vdc~100Vdc	50Vdc~150Vdc
	Efficiency	≥95%		
DC input	Rated input voltage	400Vdc		
	Input voltage range	260Vdc～750Vdc (full load) , 260Vdc～150Vdc (linearly down to half load)		
	Input current	＜45A		
	Power factor (PF)	≥0.99		
	Input protection	Insurance		
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output		
	Storage temperature	-40℃～75℃		
	Relative humidity	0～95%		
	Altitude	2000m full load output		
Reliability	MTBF	＞120000 hours		
Dimension and weight	Dimension	396（L）×130（W）×84（H）mm		
	Module net weight	7kg		
Communication and alerting	Communication interface	CAN		
Heat dissipation	Heat dissipation method	Fan forced air cooling		

SOLTERRA TECHNOLOGIES

DC-DC 10kW High Voltage

STDR750-10K Series

New energy power supply

Features

- High efficiency, high power density
- DSP digital control
- Low input harmonics
- Wide operating temperature
- Support hot swap, parallel function
- Perfect fault detection tips
- With three-proof protection function

Application field

- Logistics forklift charging
- Industrial control
- Aging equipment
- Automation device
- Instrument and meter
- IDC digital computer room

Specifications

Items		Parameters			
DC output	Module type	STDR240-10K	STDR336-10K	STDR500-10K	STDR750-10K
	Rated output power	10kW			
	Rated output current	33A	25A	30A	20A
	Output voltage range	200Vdc~300Vdc	280Vdc~410Vdc	200Vdc~500Vdc	200Vdc~750Vdc
	Efficiency	≥95%			
DC input	Rated input voltage	400Vdc			
	Input voltage range	260Vdc～750Vdc (full load) , 260Vdc～150Vdc (linearly down to half load)			
	Input current	＜45A			
	Input protection	Insurance			
Working environment conditions	Working temperature	-40℃～50℃ work normally, 50℃～75℃ derating output			
	Storage temperature	-40℃～75℃			
	Relative humidity	0～95%			
	Altitude	2000m full load output			
Reliability	MTBF	＞120000 hours			
Dimension and weight	Dimension	396（L）×130（W）×84（H）mm			
	Module net weight	7kg			
Communication and alerting	Communication interface	CAN			
Heat dissipation	Heat dissipation method	Fan forced air cooling			

AC-DC 40kW Power Supply

ST1000-40K Series

New energy power supply

Features

- Built-in output relay
- High efficiency, high power density, DSP digital control
- Low input harmonics, wide operating temperature
- Support hot swap, parallel function, multi-function protection

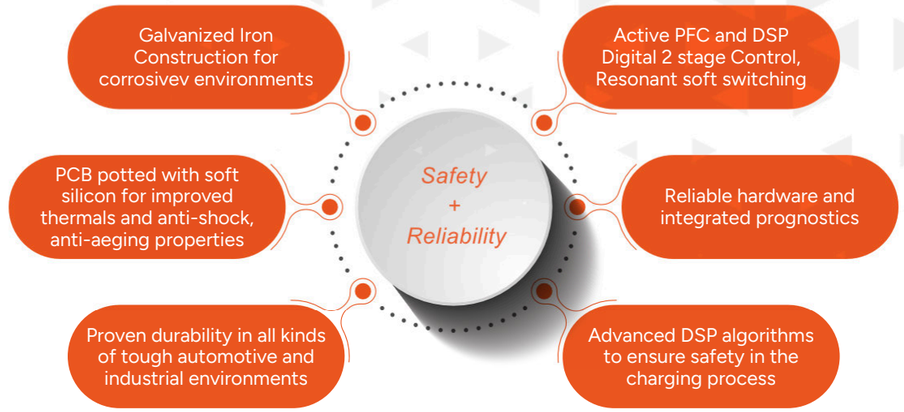
Application field

- Industrial control
- Application field
- Aging equipment
- **EV CHARGING**
- Logistics forklift
- Automation device
- Instrument and meter equipment

Specifications

Items		Parameters
DC output	Module type	ST1000-40K
	Rated output power	40kW (Constant power within 300~1000Vdc)
	Rated output current	133.3A
	Output voltage range	50VDC-1000VDC
	Efficiency	≥96%
AC input	Rated input voltage	Three-phase 380Vac/400Vac
	Input voltage range	260Vac～323Vac (derating) , 323Vac～485Vac (full load);
	Input current	≤80A
	Frequency	45-65Hz
	Power factor (PF)	≥0.99. <12W Idle Power Draw
Working environment conditions	Working temperature	-40℃～+75℃ (full load operation), +55℃～+75℃ (derating output)
	Storage temperature	-40℃～+85℃
	Relative humidity	0~98%, no condensation; Silicon Potted Construction IP20
	Altitude	≤2000m (full load output), decrease by 1% for every 100m rise
Reliability	MTBF	≥120000 hours
Dimension	Dimension	300（W）× 84（H）×437（D）mm <20Kg
Heat dissipation	Heat dissipation method	Fan forced air cooling. Audible Noise: 58dB @25℃, 1m
Communication and alerting	Communication interface	CANbus Communication

Features and advantages



STTL GQSE8819

Introduction

GQSE8819 is a PLC (HomePlugGreenPHY) Interface Device for EV Charger.
It is designed for support CCS standard only.
It is cost effective solution for CCS only charger.

Mechanical:

Dimensions: 156x98x25mm
Temperature Rating: -40 to +85 C

Functions:

DIN70121, ISO15118
ISO11898 CANbus Interface, RS232 Debug Interface, Firmware update via RS232. Low idle current draw <170mA. Various Wakeup Options.
DC 9V - 18V with Vin DC12V
PP, CP, CAN, IO, PD
Error Handling for all exceptions. ARAI Approved

OCPP CONTROLLER

Introduction

OCPP JSON 1.6, over Ethernet, Wi-Fi, and 4G Upgradable to OCPP 2.0.1 Websocket and Secure WebSocket both supports Ping Pong Monitor & Auto Reconnect Open Charge Alliance OCPP Test Passed

Mechanical:

Dimensions: 200x120x25mm
Temperature Rating: -40 to +85 C

Functions:

QUAD core ARM Application Processor with eMMC and DDR3
Isolated RS485, RS232,
4G LTE Module with Wifi and Bluetooth
Dual USB Ports
7V-36V Wide Input Voltage Range

Controllers & Communication Devices

STTL GQEVPLC

Introduction
ST EVPLC is full functional EV charging PLC communication controller for Electric Vehicle, This board supports Bi-direction Vehicle to Grid communication (V2G Protocol) software for Electric Vehicle.

Mechanical:
Dimensions: 153x136x37mm
Temperature Rating: -40 to +85 C

Functions:
DIN70121, ISO15118
ISO11898 CANbus Interface, RS232 Debug Intervface, Firmware update via RS232. Low idle current draw <1mA in Sleep Mode. Various Wakeup Options.
DC 9V-36V with Vin DC24V
PP, CP, CAN, IO, PD Lock Control and Feedback with 12V & 24V
Error Handling for all exceptions. ARAI Approved

STTL LEV EVCC

Introduction
STTL LEV EVCC is full functional EV charging communication controller for Light Electric Electric Vehicles. It supports both slow charging and Fast Charging

Mechanical:
Dimensions: 90x50x12mm
Temperature Rating: -40 to +85 C

Functions:
CHAdeMO, IEC 61851-25, CISPR25 Class3 EMI EMC
TYPE6 CANbus Interface, RS232 Debug Interface, Firmware update via RS232. Low idle current draw <1mA. Various Wakeup Options.
DC 6V - 18V , Dual Power Input
CPW, Wakeup, Contactor Control, Temperature Sensing
Error Handling for all exceptions. ARAI Approved

STTL LEV SECC

Introduction
STTL LEVDC is a full blown charging communication controller for EV Charger.
It is designed for support IEC 61851-25 and CHAdeMO Standard.
It is cost effective solution for LEVDC Fast Chargers

Mechanical:
Dimensions: 250x100x40mm
Temperature Rating: -40 to +85 C

Functions:
32 Bit Ethernet Enabled Charging Controller
Isolated RS485, CANbus 2x, 10 DI DO, CPW, Temperature Sensor, Lock Control, Feedback Control
6V-18V Wide Input Voltage Range

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STTL CCS2 PORTABLE TESTER

Introduction
The CCS2 Portable Charger Tester is an all in one Charging Station Tester that Can be used at servicing, application and maintenance Centres. This can be Transported easily as it comes in a portable hard case with wheels

Mechanical:
Dimensions: 600x400x330mm 23 Kg
Temperature Rating: -40 to +40 C

Functions:
10.1" Capacitive Touch Screen
CCS: DIN70121/ISO15118. Optional DC Load
EVCC & BMS Log Data Output
PP, CP, CAN, IO, PD / PE
Simulator Data result output and Program

STTL CCS2 SIMULATORs

Introduction
The CCS2 EV Simulators are designed for verifying standard compliance of CCS charger for accelerating development of charging station for EVSE and Charger OEMs. This device provides 100% Test coverage as per Standards.

Mechanical:
Dimensions: 430x160x500mm 19" 5U Rack Mountable
Temperature Rating: -40 to +85 C

Functions:
DIN70121, ISO15118
ISO11898 CANbus Interface, RS232 Debug Interface, Firmware update via RS232. Low idle current draw <1mA. Various Wakeup Options.
110VAC - 240VAC 50/60Hz input for Controller
PP, CP, CAN, IO, PD
Detailed Logging, Debug ports and Sniffer inbuilt

STTL GQIMD

Introduction
The GQ IMD is high voltage isolation monitoring device for EV and EV Chargers
The GQIMD monitons isolation resistance Dynamically. This unit is automotive Application qualified and is ready for EVSE and EV

Mechanical:
Dimensions: 100x53x17mm
Temperature Rating: -40 to +125 C

Functions:
TheGQ-IMD was designed for complying with ISO6469-3:2011-12, UL2231-1,UL2231-2, IEC61557-A, CFR571.305 and other applicable standards.
CANbus Interface, RS232 Debug Interface, Firmware update via RS232. Low idle current draw <1mA.
Isolation Resistance Monitoring Range upto 2.7MΩ and Detection upto 1000VDC. PWM and Fault IO available
DC 6V - 36V with Vin DC24V

SOLTERRA™

EV CHARGERS

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