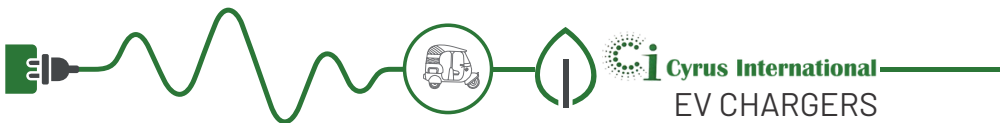


EV Chargers

New Launch

Fast • Efficient • Future





EV CHARGERS

EV CONTROLLERS

COMMUNICATIONS DEVICES

EV SIMULATORS

CUSTOMIZED DESIGN SERVICES



Cyrus International

EV CHARGERS

Who We Are

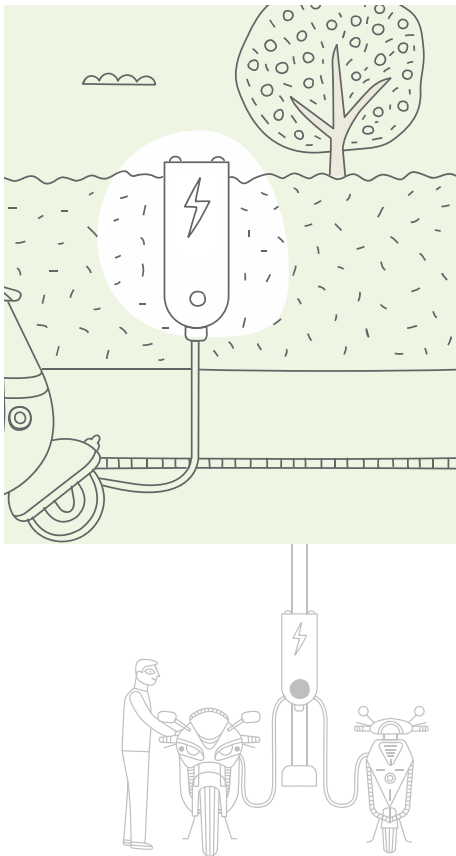
We are experts and veterans of the EVSE and EV industry with a collective experience of over 80 years in the Hardware, Mechanical, Software and Systems Domains. Our goal is to be the pioneers in energy conversion. Our vision is to one day provide end-to-end solutions from energy generation to energy storage. We only happen to start with the EV and Mobility Industries.

What We do

We provide end-to-end solutions for your Power & Energy Systems and EV charging requirements. Our team of deep tech experts is here to guide you throughout the development process for your product. We are creating a new generation of DC fast chargers and EV charging solutions to solve the biggest problems in EV adoption to end the age of fossil fuels.

Our Strengths

EV Charger development and production for passenger and commercial two wheelers, three wheelers and four wheelers. Our solutions span across private vehicles, fleet operators, Battery OEMs, Automotive OEMs, Charging network operators. Deep Tech Design and Strategy consultancy Contract Manufacturing, Global Sourcing Software and OCPP Consultancy We service and provide technology solutions to the world's major players in each market segment with innovative solutions.



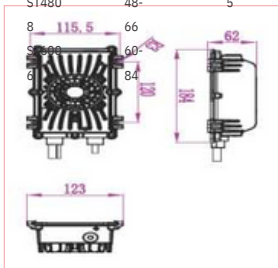


CHARGER 300 WATTS 2W




Model No. STPC-0300-BASE-xxxx



Table of models available		
Models	Voltage (V)	Current (A)
ST241	24-	1
2	34	2
ST361	36-	7
0	49	5
ST480	48-	5



Applications

-  2 Wheeler
-  Commercial
-  Residential

Attributes

Input Voltage Range	170 - 270 VAC L-N+E 50Hz
Output Power	300W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CC CV
Topology	Active PFC + Half Bridge
Weight	LLC
Ingress Protection	1.0 Kg
Working Temperature	IP67
Warranty & Reliability	-30 to 65 oC
Certification	3 + 10 Years
	Available on Request

Protection

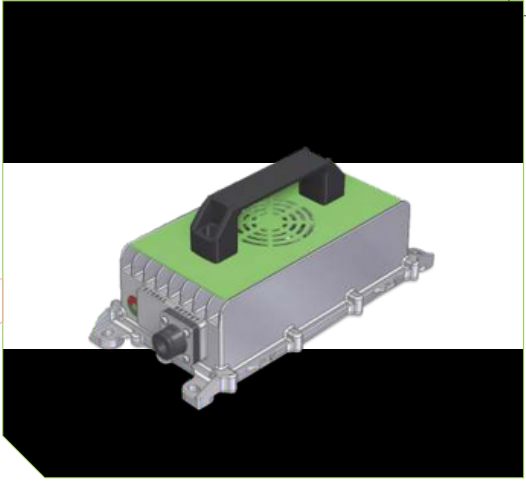
- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	≥20MΩ/DC 500V
EFT Bursts & Immunity Characteristics	a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz] 6kV common & differential mode for 10 Input Impedance
Surge Immunity	≥20MΩ/DC 500V

Customization Options

- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD

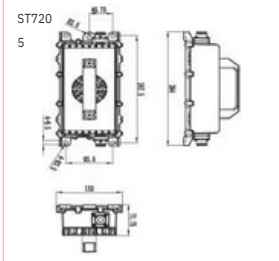



CHARGER 450
WATTS 2W




Model No. STPC-0450-CTNV-xxxx

Table of models available

Models	Voltage (V)	Current (A)
St3610	36-49	1
ST480	48-66	0
8	60-84	8
ST600	72-100	6
6		5



Applications

-  2 Wheeler
-  Commercial
-  Residential

Attributes

Input Voltage Range	100 - 270 VAC L+N+E 50Hz
Output Power	450W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CC CV
Topology	Active PFC + Half Bridge LLC
Weight	1.0 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	UL/CB/CE/KC/RSM/FCC/KCC/CEC/DOE/CA65

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	≥20MΩ/DC 500V
EFT Bursts & Immunity Characteristics	a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz] 6kV common & differential mode for 10 Input Impedance
Surge Immunity	≥20MΩ/DC 500V

Customization Options

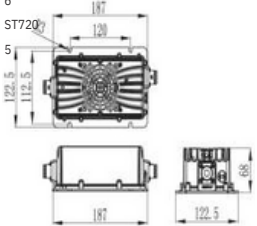
- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD



CHARGER 480
WATTS 2W

Model No. STPC-0480-CTWV-xxxx

Table of models available		
Models	Voltage (V)	Current (A)
ST361	36-49	1
0	48-66	0
ST480	60-84	8
8	72-100	6
ST600		5



Applications

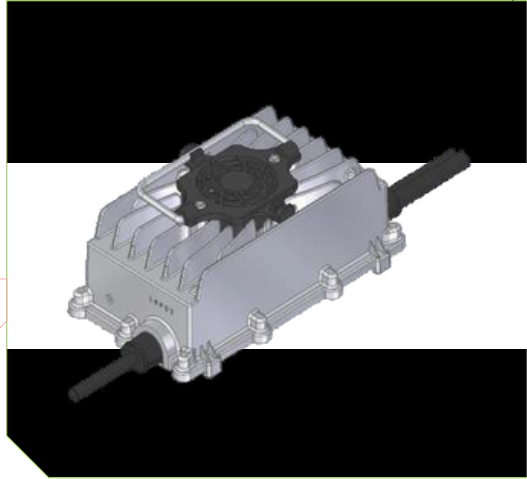
-  2 Wheeler
-  Commercial
-  Residential

Attributes	
Input Voltage Range	85 - 270 VAC L+N+E 50Hz
Output Power	480W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CC CV
Topology	Active PFC + Half Bridge LLC
Weight	1.2 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	UL/CB/CE/KC/RSM/FCC/KCC/CEC/DOE/CA65

Protection	
• Output overvoltage protection	• Charging timeout protection
• Overheat Protection	• Input over/under protection
• No-Load Protection	• Battery reverse protection
• Output overcurrent protection	• Battery error during charging
• Short Circuit Protection	

Safety and EMC	
Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MΩ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options	
• Wake Up Function	• Output Connector
• Auxiliary Power	• Communication
• Baseplate	• Isolated Communication
• Outer Casing Handle	• Authentication
• Drive Interlock	• RCD
• Input Connector	

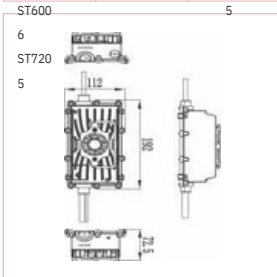


CHARGER 480
WATTS 2W

Model No. STPC-0480-BASE-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST361	36-49	1
0	48-66	0
ST480	60-84	8
8	72-100	6



Applications



2 Wheeler



Commercial



Residential

Attributes

Input Voltage Range	170 - 270 VAC L+N+E 50Hz
Output Power	480W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CC CV
Topology	Active PFC + Half Bridge LLC
Weight	1.0 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	Available on Request

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MΩ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

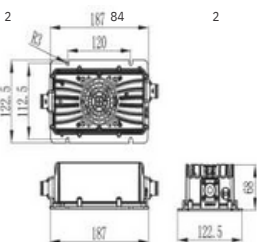
- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD



**CHARGER 750
WATTS 2W**

Model No. STPC-0750-BASE-xxxx

Table of models available		
Models	Voltage (V)	Current (A)
ST361	48-	1
5	66	5
ST481	48-	1
2	66	2
ST601	60-	1
2		2



Applications

-  2 Wheeler
-  Commercial
-  Residential

Attributes	
Input Voltage Range	170 - 270 VAC L+N+E 50Hz
Output Power	750W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CC CV
Topology	Active PFC + Half Bridge LLC
Weight	1.2 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	Available on Request

Protection	
• Output overvoltage protection	• Charging timeout protection
• Overheat Protection	• Input over/under protection
• No-Load Protection	• Battery reverse protection
• Output overcurrent protection	• Battery error during charging
• Short Circuit Protection	

Safety and EMC	
Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MQ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

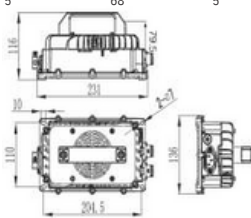
Customization Options	
• Wake Up Function	• Output Connector
• Auxiliary Power	• Communication
• Baseplate	• Isolated Communication
• Outer Casing Handle	• Authentication
• Drive Interlock	• RCD
• Input Connector	



CHARGER 900
WATTS 2W

Model No. STPC-0900-BASE-xxxx

Table of models available		
Models	Voltage (V)	Current (A)
ST243	24-	3
0	34	0
ST362	36-	2
5	51	5
ST482	48-	2
5	68	5



Applications

-  2 Wheeler
-  Commercial
-  Residential

Attributes

Input Voltage Range	85 - 270 VAC L+N+E 50Hz
Output Power	900W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CC CV
Topology	Active PFC + Half Bridge LLC
Weight	2 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	Available on request

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MΩ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD

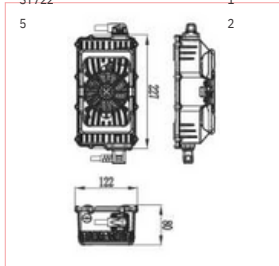


**CHARGER 1000
WATTS 2W / 3W**

Model No. STPC-1000-SURR-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST4B1	48-66	1
5	60-84	5
ST601	72-100	1



Applications



2 Wheeler



3 Wheeler



Commercial



Residential

Attributes

Input Voltage Range	85 - 270 VAC L+N+E 50Hz
Output Power	1000W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	2.0 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	UL1012, CSA C22.2, FCC,CEC,C

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MQ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD



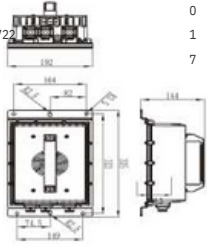
CHARGER 1200
WATTS 2W / 3W

Model No. STPC-1200-CTWV-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST362	36-49	2
5	48-66	5
ST482	60-84	2
5	72-100	5

ST602	2
0	0
ST722	1
5	7



Applications



2 Wheeler



3 Wheeler



Commercial



Residential

Attributes

Input Voltage Range	85 - 270 VAC L+N+E 50Hz
Output Power	1200W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	2.8 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 °C
Warranty & Reliability	3 + 10 Years
Certification	UL1012, C22.2 #107.2, FCC,CEC,CF65,K

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MQ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD

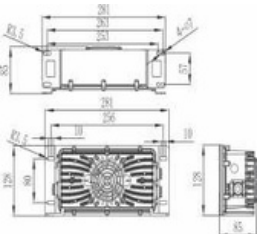


CHARGER 1350
WATTS 2W / 3W





Model No. STPC-1350-BASE-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST3625	36-49	25
ST4825	48-66	25
ST6020	60-84	20
ST7225	72-100	18



Applications

-  2 Wheeler
-  3 Wheeler
-  Commercial
-  Residential

Attributes

Input Voltage Range	170 - 270 VAC L+N+E 50Hz
Output Power	1350W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	2.0 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	Available on Request

Protection

• Output overvoltage protection	• Charging timeout protection
• Overheat Protection	• Input over/under protection
• No-Load Protection	• Battery reverse protection
• Output overcurrent protection	• Battery error during charging
• Short Circuit Protection	

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MΩ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

• Wake Up Function	• Output Connector
• Auxiliary Power	• Communication
• Baseplate	• Isolated Communication
• Outer Casing Handle	• Authentication
• Drive Interlock	• RCD
• Input Connector	

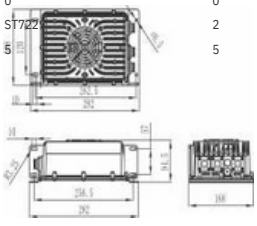


**CHARGER 2000
WATTS 2W / 3W**





Model No. STPC-2000-BASE-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST363	36-49	3
5	48-66	5
ST483	60-84	3
5	72-100	5
ST603		3
0		0
ST722		2
5		5



Applications

-  2 Wheeler
-  3 Wheeler
-  Commercial
-  Residential

Attributes

Input Voltage Range	170 - 270 VAC L+N+E 50Hz
Output Power	2000W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	3.5 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	Available on Request

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MΩ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD

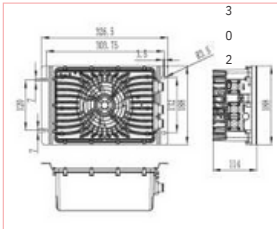


CHARGER 3300
WATTS 3W

Model No. STPC-3300-BASE-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST4850	48-66	5
ST6035	60-84	0
ST7230	72-100	3
ST9630	96-118	5
ST14420	108-128	3



Applications



3 Wheeler



Service Station



Commercial



Residential

Attributes

Input Voltage Range	85 - 270 VAC L+N+E 50Hz
Output Power	3300W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	5.8 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 °C
Warranty & Reliability	3 + 10 Years
Certification	Available on Request

Protection

• Output overvoltage protection	• Charging timeout protection
• Overheat Protection	• Input over/under protection
• No-Load Protection	• Battery reverse protection
• Output overcurrent protection	• Battery error during charging
• Short Circuit Protection	

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA 60s AC1000V,
Isolation: Output to Housing	Current Leakage<20mA 60s AC1000V,
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MQ/DC 500V
	a. AC Power Port 4kV [Level 4 / 5KHz]
	b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

• Wake Up Function	• Output Connector
• Auxiliary Power	• Communication
• Baseplate	• Isolated Communication
• Outer Casing Handle	• Authentication
• Drive Interlock	• RCD
• Input Connector	



CHARGER 3300
WATTS 3W

Model No. STPC-3300-DISP-xxxx

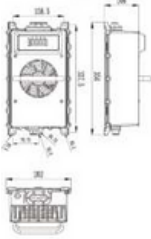
Table of models available

Models	Voltage (V)	Current (A)
ST485	48-66	5
0	60-84	0
ST603	72-100	3

5 5

ST723 3

0 0



Applications



3 Wheeler



Service Station



Commercial



Residential

Attributes

Input Voltage Range	170 - 270 VAC L+N+E 50Hz
Output Power	3300W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	5.8 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 °C
Warranty & Reliability	3 + 10 Years
Certification	With Display

Protection

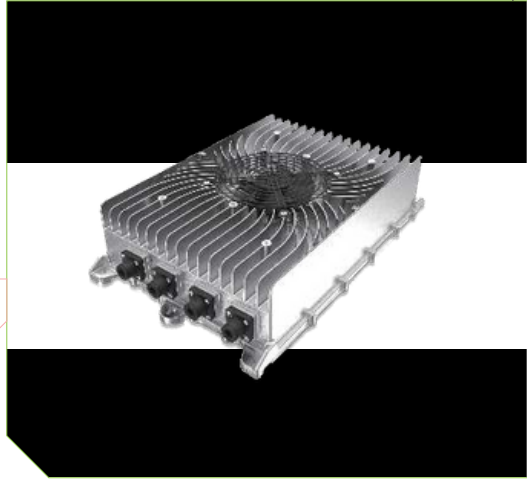
- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MΩ/DC 500V
	a. AC Power Port 4kV [Level 4 / 5KHz]
	b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

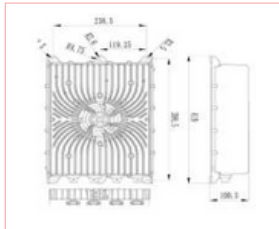
- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD







**CHARGER 5000
WATTS 3W**

Model No. STPC-5000-BASE-xxxx

Table of models available		
Models	Voltage (V)	Current (A)
ST36100	36-51	100
ST4890	48-66	90
ST6060	60-85	60
ST7260	72-102	60
ST8050	80-113	50



Applications

-  3 Wheeler
-  Service Station
-  Commercial
-  Residential

Attributes	
Input Voltage Range	415 VAC L-L 3Phase+E 50Hz
Output Power	5000W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	18 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	Available on Request

Protection	
• Output overvoltage protection	• Charging timeout protection
• Overheat Protection	• Input over/under protection
• No-Load Protection	• Battery reverse protection
• Output overcurrent protection	• Battery error during charging
• Short Circuit Protection	

Safety and EMC	
Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MQ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options	
• Wake Up Function	• Output Connector
• Auxiliary Power	• Communication
• Baseplate	• Isolated Communication
• Outer Casing Handle	• Authentication
• Drive Interlock	• RCD
• Input Connector	

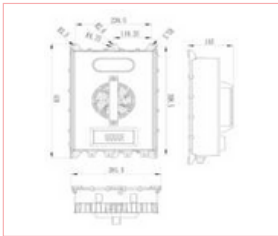



CHARGER 5000
WATTS 3W





Model No. STPC-5000-DISP-xxxx

Table of models available

Models	Voltage (V)	Current (A)
ST36100	36-51	100
ST4890	48-66	90
ST6060	60-65	60
ST7260	72-102	60
ST8050	80-113	50



Applications

-  3 Wheeler
-  Service Station
-  Commercial
-  Residential

Attributes

Input Voltage Range	415 VAC L-L 3Phase+E 50Hz
Output Power	5000W
Efficiency	≥90%
Indications	External LED Indicator
Power Factor	≥0.99
Control System	CAN / CC CV
Topology	Active PFC + Half Bridge LLC
Weight	18 Kg
Ingress Protection	IP67
Working Temperature	-30 to 65 oC
Warranty & Reliability	3 + 10 Years
Certification	With Display

Protection

- Output overvoltage protection
- Overheat Protection
- No-Load Protection
- Output overcurrent protection
- Short Circuit Protection
- Charging timeout protection
- Input over/under protection
- Battery reverse protection
- Battery error during charging

Safety and EMC

Isolation: Input to output	AC2000V, Current Leakage<20mA
Isolation: Input to Housing	60s AC2000V, Current Leakage<20mA
Isolation: Output to Housing	60s AC1000V, Current Leakage<20mA
Insulation Resistance Input to Housing	Current Leakage<20mA 60s
EFT Bursts & Immunity Characteristics	≥20MQ/DC 500V a. AC Power Port 4kV [Level 4 / 5KHz] b. Other Ports 2kV [Level 3 / 100KHz]
Surge Immunity	6kV common & differential mode for 10 Input Impedance

Customization Options

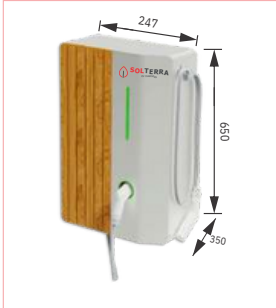
- Wake Up Function
- Auxiliary Power
- Baseplate
- Outer Casing Handle
- Drive Interlock
- Input Connector
- Output Connector
- Communication
- Isolated Communication
- Authentication
- RCD









DC FAST CHARGER

12kW/120V 12000-xxxx

Table of models available	
Models	Description
SOLE-	12 kW 120V DC
UNITY12	12 kW 120VDC + 11 kW 3 AC
SOLE-DUAL12	



Applications

-  2 Wheeler
-  3 Wheeler
-  Service Station
-  Commercial
-  Residential

Attributes	
Power Rating (kW) - DC	12 kW
Connector Type - DC	IS 17017-2-6
Vehicle Types	2W, 3W, Light Electric Vehicles
Protocol	CHAdemo, IS 17017-25
Cloud and Interoperability	Ocpp V2.0 ; OICP
Target Market	India, EU, APAC, LATAM
IP Rating	IP55
User Interface	QR Code and Mobile App
Connectivity to EVSE	GSM 4G LTE
Cable Length Outgoing	3m
Output Voltage DC	30 - 120 VDC
Output Current	100A

Power Rating (kW) - AC	11 kW
Connector Type - AC	IS 17017-2-
Number of Phases	2 16A 3

Safety & Protection	
<ul style="list-style-type: none"> • Residual Current Detection • Over Temperature • Surge Protection Type 1 & Type 2 • Equipotential Bonding • Undervoltage • Overvoltage • Short Circuit • Vehicle Connector Latching 	<ul style="list-style-type: none"> • Emergency Shutdown • Safety by Electrical Separation • Active Thermal Derating • Anti Corrosion • Environmental Compatibility • Forced Air Thermal Management • Ruggedized Connector • ARAI Certification





Cyrus International

EV CHARGERS

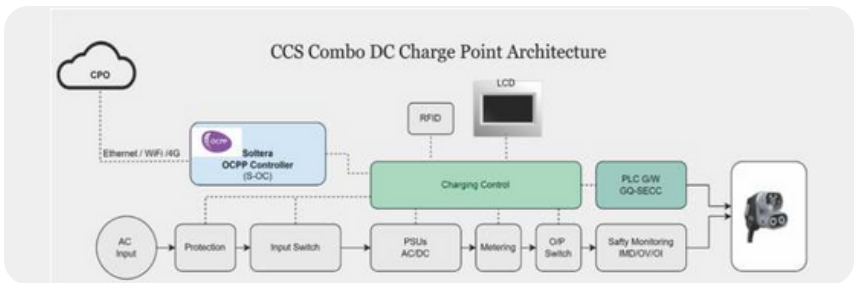
OCCP CONTROLLER

Model No. STOC-00-00



Software Features	
CPO Connection	OCPP JSON 1.6, over Ethernet, Wi-Fi, and 4G Upgradable to OCPP 2.0.1 Websocket and Secure Websocket both supported Ping Pong Monitor & Auto Reconnect Open Charge Alliance OCPP Test Passed
IOT Backend Connectivity	MQTT, AWS IOT, Azure IOT
Charging Controller Communication	Modbus RTU, Modbus TCP, ISO-TP

Hardware Features	
Processor	Quad core ARM application processor with eMMC and DDR
NETWORKING	Dual Gigabit Ethernet RJ45 5G / 4G module (Optional) WiFi, Bluetooth - NO Nano-SIM card slot, supports standard Nano-SIM card for 5G/4G/3G/2G communication
USB	USB 3.2 Gen1 x 2
RTC	Real-time clock with battery socket and ability to wake Compute Module 4
FAN HEADER	5V/12V (12V by default), allows speed adjustment and measurement
POWER INPUT	5V/2.5A
DIMENSIONS	99.6 x 87.0mm



Applications

-  Commercial
-  Industrial
-  EV Charger

CHARGE POINT COMMUNICATION CONTROLLER

Model No. STCPCC-01-00

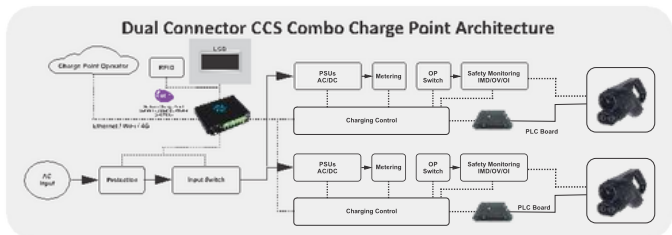


Software Features	
CPO Connection	OCPP JSON 1.6, over Ethernet, Wi-Fi, and 4G Upgradable to OCPP 2.0.1 Websocket and Secure Websocket both supported Ping Pong Monitor & Auto Reconnect Open Charge Alliance OCPP Test Passed
IOT Backend Connectivity	MQTT, AWS IOT, Azure IOT
KWh-Meter Interface	Supports major ACEMs over Modbus (RTU/TCP)
Dynamic Load Management	1) Local EMS Interface over Modbus TCP 2) OCPP Smart Charging Profile
Data Recording	Charging Data Recording for more than a Month Embedded WebServer
Web-GUI	
FOTA	a) Trough OCPP Firmware Update b) MQTT
External Device Communication	Modbus RTU, Modbus TCP, ISO-TP
IO Controls	Modbus IO Expansion

Hardware Features	
Processor	Quad core ARM application processor with eMMC and DDR
NETWORKING	2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac wireless (Optional) Bluetooth 5.0, BLE (Optional) 10/100M auto-negotiation, for connecting router or switch with PoE function
DC power port	7~36V DC wide range power supply, recommend 24W power adapter at least.
Smart Devices Communication	Ethernet CAN, RS232, RS485 (Using suitable converters)
USB3.2 Interface	4 x USB 3.2 Gen1 interface for USB devices.
HDMI Interface	Dual HDMI ports for dual 4K 30fps output.
RTC	RTC battery holder. The real-time clock can be used to wake up, shutdown or reboot SOM.
FAN	Fan header, support PWM Fan.
FAN Power Select	5V or 12V voltage to drive the fan
IO-VREF/PoE selection	IO-VREF Logic level: 3.3V or 1.8V PoE: enable (EN) or disable (DIS)
Dual LED indicators	Red: Power indicator Green: operating status indicator
Operating Temperature	0-55C

Applications

-  Commercial
-  Industrial
-  EV Charger



CHARGE POINT COMMUNICATION CONTROLLER



Model No. STCPCC-00-00

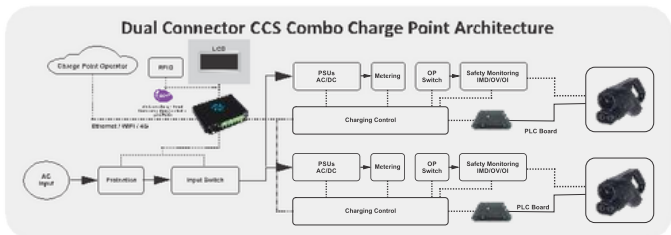


Software Features	
CPO Connection	OCPP JSON 1.6, over Ethernet, Wi-Fi, and 4G Upgradable to OCPP 2.0.1 Websocket and Secure Websocket both supported Ping Pong Monitor & Auto Reconnect Open Charge Alliance OCPP Test Passed
IOT Backend Connectivity	MQTT, AWS IOT, Azure IOT
KWh-Meter Interface	Supports major ACEMs over Modbus (RTU/TCP)
Dynamic Load Management	1) Local EMS Interface over Modbus TCP 2) OCPP Smart Charging Profile
Data Recording	Charging Data Recording for more than a Month
Web-GUI	Embedded WebServer
FOTA	a) Through OCPP Firmware Update b) MQTT
External Device Communication	Modbus RTU, Modbus TCP, ISO-TP
IO Controls	Modbus IO Expansion

Hardware Features	
Processor	Quad core ARM application processor with eMMC and DDR
NETWORKING	Gigabit Ethernet RJ45 connector, integrates 802.3af-compliant PoE circuit (5V/2.5A) SIM card slot, supports standard SIM card for 5G/4G/3G/2G communication
CONNECTOR	Isolated RS485, Isolated RS232, PCIe Gen 2 x1, I2C, ADC, GPIO
USB	Dual USB 2.0 Type A
VIDEO	Dual HDMI ports, supports 4K 30fps output
RTC	Real-time clock with battery socket and ability to wake Compute Module 4
STORAGE	MicroSD card socket
FAN HEADER	Allows speed adjustment and measurement, 5V / 12V input
POWER INPUT	7V-36V wide range

Applications

-  Commercial
-  Industrial
-  EV Charger



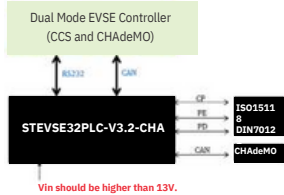
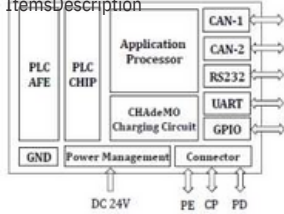
MULTI MODE CHARGING COMMUNICATION CONTROLLER

STEVE32PLC_V3.2-CHA
ISO/IEC15118 & CHAdeMO
Model No. STSECC-CXX-xxxx



STEVE32PLC-V3.2-CHA is dual mode charging communication controller of CCS (ISO15118, DIN70121) and CHAdeMO. The board can be configured for simultaneous dual mode charge service for CCS and CHAdeMO. PD detection is implemented for CCS and CHAdeMO.

Items Description



CON 8
2 1
GND DC24V

Applications

-  EV Charger
-  Commercial

Charging Mode	CCS and CHAdeMO
Input Voltage	DC 24V (Min. 13V ~ Max 28V)
Input current	Min. 1.5A at Vin 24V
Dimension(mm)	156.4 x 98.2 (W x D)
Serial Port	Rs232, CAN (GB/T27930), UART (Debug only)
CHAdeMO Interface	CAN
CCS (DC Combo) Interface	CP, PE, PD
Power Consumption	< 2W at CCS, Max. 30W @ CHAdeMO
Operation Temperature	-40 ~ +85oC
Features	<ul style="list-style-type: none"> • Support DIN70121 as mandatory • Support ISO/IEC15118 upon request • Support CHAdeMO Version 1.0.1. • Support CHAdeMO Plug-In detection. • Easy Control & Monitoring using RS232 • Compliant test with global Electric Vehicle companies

CON 9		
Pin#	Name	Description
1	CANH	CAN High (to EVSE controller)
2	CANL	CAN Low (to EVSE controller)

CON 18		
Pin#	Name	Description
1	CANH	CAN High (to CHAdeMO EV)
2	CANL	CAN Low (to CHAdeMO EV)
3	CS	Proximity detection
4	CP2	Charge sequence signal 2, D2 (Control EV Relay 2 of 2)

CON 17		
Name	Pin#	Description
1	CP3	Vehicle Charge Permission, J Charge Sequence signal 1, D1 (Control EV Relay 1 of 2)
2	CP	GND for insulation monitor
3	PE	Lock, Power (Lock 12+)
4	Lock Power	Lock, Signal (Lock 12V-)
5	Lock Signal	

CON 5			CON 7		
Pin#	Name	Description	Pin#	Name	Description
3	2	1	5	GND	
PD	P	C	4	RX	
	E		3	TX	
			2	Power	
			1	Signal	

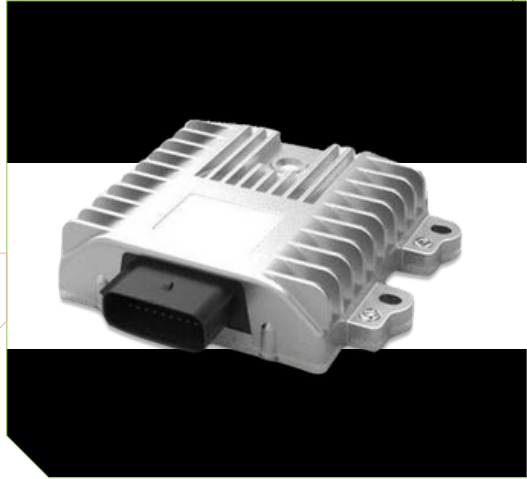


EV CHARGERS

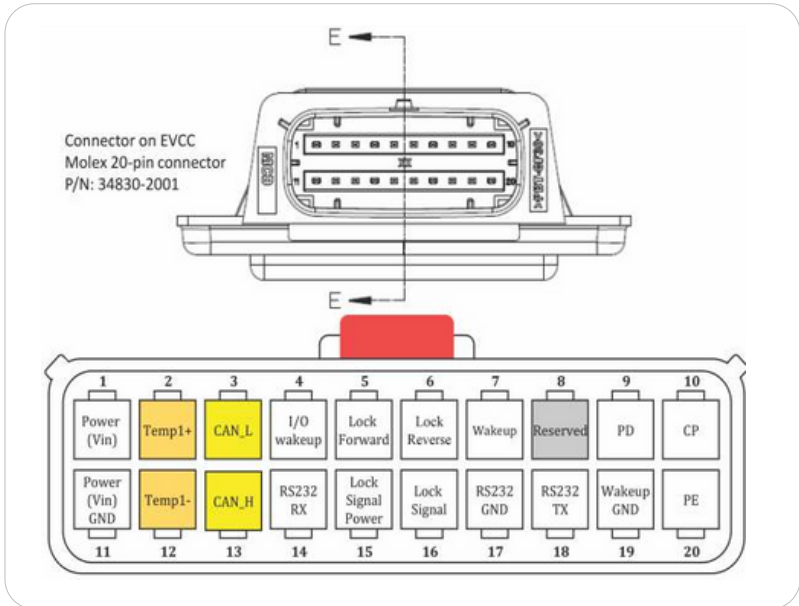
ELECTRIC VEHICLE COMMUNICATION CONTROLLER

(STEVPLC-V6.2) CCS (DIN70121, ISO15118)

Model No. STEVCC-CXX-xxxx



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



Applications

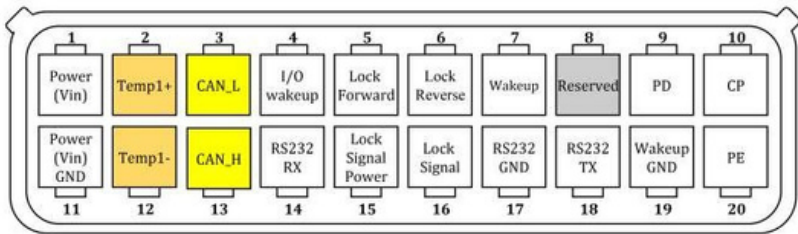


EV Charger (4W / E BUS / E TRUCK & E TRACTOR)

Items	Description
Charging Mode	CCS 1.0 (DIN70121), CCS2.0(ISO15118)
Operation Voltage Range	DC 18V ~ 35V with Vin DC24V
CAN Interface	ISO11898 CAN Interface
Current consumption @ Active	< 100mA with Vin DC24V < 180mA with Vin DC12V
Current consumption @ peak with inlet lock control	1A with Vin DC24V & Lock Control with 24V 1.5A with Vin DC12V & Lock control with 12V
EVCC Wake-up	PD, CAN, IO, CP-Optional
Current consumption @ standby with unplug	< 2mA @ PD Wakeup < 1mA @ CP Wakeup
Operation Temperature	-40 ~ +85oC
Dimension	153 x 136 x 37 including case
Features	<ul style="list-style-type: none"> • Supports ISO15118, DIN70121 • Error handling for all exceptions. • Easy Control & Monitoring using RS232 • Compliant test with CCS EV Charger

Pin No	Description	Pin No	Description	Pin No	Description
1	Power (Vin, DC24V)	8	Reser ved	15	Lock Signal Power
2	Temp 1+	9	PD (Proximity Detection)	16	Lock Signal
3	CAN_Low	10	CP (Control Pilot)	17	RS232 GND
4	I/O wakeup (24V High)	11	Power (Vin) GND	18	RS232 TX
5	Lock Forward	12	Temp 1-	19	Wakeup GND
6	Lock Reverse	13	CAN_High	20	PE
7	Wakeup (DC 24V)	14	RS232 RX		

Connector on EV Side
Molex 20-pin connector
P/N: 33472-2006



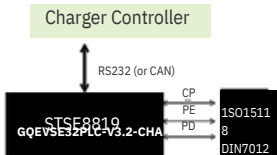
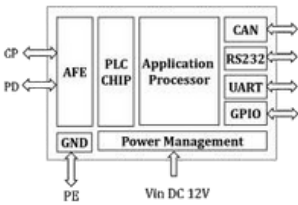
CHARGING COMMUNICATION BOARD FOR EV CHARGER

(STSE8819 V1.1)

Model No. STSECC-LCCCS-xxxx



STSE8819 is a charging communication controller for EV Charger. It is designed for support CCS standard only. It is cost effective solution for CCS only charger.



[Interface between GQEVSE3ZPLC-V3.2-CHA and Charger controller]

Applications



EV Charger

Items	Description
Charging Mode	CCS (DIN70121, ISO15118)
Operation Voltage	Vin DC12V (Max input current: 2A) Input Voltage range: DC 9V -DC 18V
Dimension (mm)	156.4 x 98.2 (W x D)
Serial Port	RS232, CAN (Optional)
Power Consumption	< 2W
Operation Temperature	-40 ~ +85oC
Features	<ul style="list-style-type: none"> -Supports CCS (DIN70121, ISO/IEC15118), SAE2847-2, IEC61851-1/2/3. -Compliant with PD detection requirement of SAEJ1772-2017 -Error handling for all exceptions. -Easy Control & Monitoring using RS232 -Compliant test with global Electric Vehicle companies

CAN INTERFACE	
CON 18	
Pin	Description
# 1	CAN High.
2	CAN Low.
POWER	
CON 8	
2	1
GND	DC12V

SERIAL INTERFACE		
CON 11		
3	GND	
2	RX	
1	TX	
DC Combo		
CON 5		
3	2	1
PD	PE	CP

SERIAL INTERFACE	
CON 11	
5	GND
4	RX
3	TX
2	Power
1	Signal



Cyrus International

EV CHARGERS

PORTABLE CCS CHARGER

7KW AND 15KW
Model No. STPNAPC-CXX-xxxx



These are four wheeler DC EV Chargers. These chargers are compact, portable and flexible. These are available in CCS Type1 and CCS Type2 outputs. These portable chargers are ideal for automotive industry, vehicle manufacturers (R&D), and maintenance centers



Applications

-  Commercial
-  Service Station
-  R & D
-  Road Side Assistance

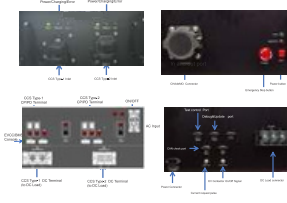
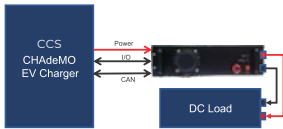
Specification			
	Item	7kW CCS	15kW CCS
AC Input	Input Rating	90Vac ~ 280Vac	260Vac ~ 530Vac
	AC input connection	AC single phase L+N+PE Open end cable or CEE 32 (optional)	3P+PE Open end cable or CEE 32(optional)
	Max Input Current	30A	30A
	Frequency	45~65Hz	50Hz / 60Hz
	Power factor	0.99	0.99
DC Output	Efficiency	≥94% @ 500Vdc	≥95% @ 500V-30A , ≥99.4.5% @ 400V-30A
	Output voltage range	150Vdc ~750Vdc	50Vdc ~ 550Vdc
	Max Output power	7kW @ voltage >350Vdc	15kW @ voltage >350Vdc
	Max Output Current	0-20A	0-35A
User Interface	Display	3" - Resolution -TBD	3.5" TFT - 320x480
	Push button	Start, Stop, Emergency Stop	Start, Stop, Emergency Stop
Communication	Internal	CAN, RS232	CAN, RS232
	External	Bluetooth (TBD)	Bluetooth (TBD)
Environmental	Operation temperature	-200C ~ +750C Derating from 550C	-200C ~ +750C Derating from 550C
	Humidity	≤90% RH	≤95%RH, without condensation
	IP Level	IP44	IP44
	Cooling	Fan cooling	Fan cooling
Mechanical	Dimension (W*D*H)	220mm x 410mm x 240mm	210mm x 560mm x 300mm
	Weight	≤ 10 kg (TBD)	≤ 25 kg
	Cable length	5M	DC Cable - 3m, AC Cable - 5m
	Charger Connector	CCS Type-1 or CCS Type-2 on demand.	CCS Type-1 or CCS Type-2 on demand.
	Regulation	Compliant with KC	Compliant with KC
Safety	External	Compliant with CE (TBD)	Compliant with CE (TBD)
	Over current & short circuit protection	Automatic shutdown	Automatic shutdown
Reliability	MTBF	>500,000h / charging power module	>500,000h / charging power module

CCS & CHAdeMO EV SIMULATOR

Model No. STEVSIM-CXX-xxxx



The CCS and CHAdeMO EV Simulators are designed for verifying standard compliance of CCS and CHAdeMO Charger and for accelerating development of charging Station for EVSE and Charger OEMs. The EV Simulators provide test coverage from charging communication to real energy transfer with additional DC power load



Applications



Industrial



Testing Lab



R & D

Type	ST-CHA EVSIM	ST-CCS EVSIM
Charging Standard	CHAdeMO Rev. 1.x (up to 1.2)	CCS Standard (DIN70121) SAE J1772 IEC 62196-3
Inlet	CHAdeMO Inlet DC500V, 125A -40 oCto + 60oC	CCS Type-1 Inlet: DC 600V, 200A CCS Type-2 Inlet: DC 1000V, 200A
User Interface		
Status indication	Power, Normal Charging, System Error	
Safety Cutoff	Emergency Stop	
Console	Rs232 Debug, RS232 Console, Rs232 Console RS-485, CAN1 Debug, CAN2 (EVCC, BMS) CP / PD BMS Trigger Out 1, Trigger Out 23ack for monitoring	
Environment		
Operation Temperature	-30oC to +	
Storage Temperature	50oC -30oC to	
Mechanical		
Cooling	Natural cooling	
Dimension (W x H x D)	19-inch 5U (430 x 160 x 500 mm)	
Input power for controller		
Input Rating	110 Vac ~ 240 Vac, 50/60	
Number of Phase / Wire	Hz L, N and PE (Ground)	

Features

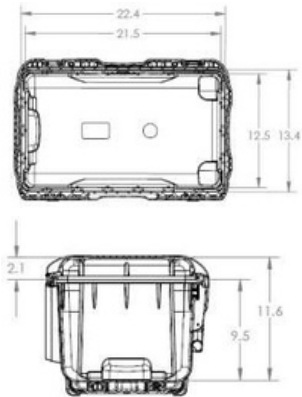
- Support CCS EV Simulation according to DIN 70121 standard specification Support test according to CHAdeMO Rev 1 x (up to Rev 1 2)
- Timings of communication, signals and charging test
- Communication and signal order test
- Charger test including communication and energy transfer
- Detect Charge States, Detect Stop events
- Check timing, CAN Cycle time
- Detect causes of charging issues
- DC power delivery can be performed with external DC load • Installation of CCS Type 1 and CCS Type 2 Inlet
- CP and PD monitoring
- Serial console of EVCC
- Serial console of BMS
- Charging communication monitoring

CCS CHAdeMO PORTABLE CHARGER TESTER

7KW AND 15KW
Model No. STACC-TYPX-xxxx



The SolTerra CHARGER TESTER is an all in one Charging station tester that can be used at the service application and maintenance centres. Three EV simulation modes are available with DIN 70121 ISO 15118 and CHAdeMO 1.0.1 An internal 4 kW load can be loaded on to the Charging station. Test data can be logged via USB and Rs 232 and CP/PD signal can be measured directly



Specification

Display/Touch Panel	10.1" / Capacitive Touch
Weight	23kg
Size	600 x 400 x 330mm
Operating Temp	-20 ~ +40 oC
Simulator Standard	CCS DIN70121/ISO15118
Voltage measure error	CHAdeMO : 1.0.1 +/-1%
Voltage measure resolution	+/-100mV
Current measure range	0-30A
Current measure error	+/-1%
Current measure resolution	100mA
Load type	Fixed Resistor
Load Current	Max. 5A@400V
Load type	Up to external load type
Load Current	Max. 200A @1000V
USB x 2	Simulator Data result output & Program
RS-232 x 2	EVCC & BMS Log data output
Banana Jack	CP / PD / PE
Terminal Block	Optional interface for external DC load

Applications



Industrial



Testing Lab



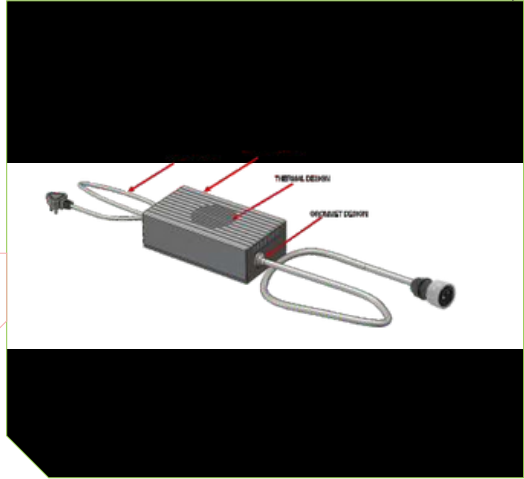
R & D



EV CHARGERS

2W 3W PORTABLE CHARGER CASING DESIGN SERVICES

Model No. STPTSTR-CXX-xxxx



Design Services

Overall project consultation & seamless support for the development of portable charger casing
Conversion of customer A-surface to high-quality detailed engineering design while ensuring

Assembly & Manufacturability	Robustness
Thermal performance	Safety (electrical, thermal)
Cost centric design	Environmental compliance

Development of detailed, high-quality engineering drawings (mechanical, electrical), bill of materials.
Inputs for user manuals and Dos and Donts Liason with third parties for tooling engineering artefacts and requirements elicitation
Development of common wall mount / fixed solution for the products
Software and communication protocol support on request.



Plastic Casing Attributes

- Drop Resistant
- Strain Relief grommets
- Focus on Aesthetics
- Wall mount integration
- UV Resistant
- Safety (UL94-V0) • Thermal Design
- Harness Design

Applications



2 Wheeler



3 Wheeler



Service Station



Commercial

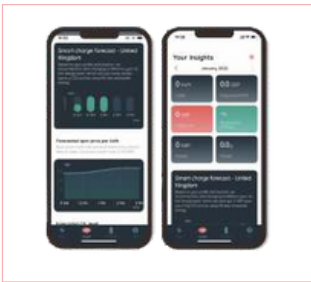


Residential

**TYPE 2 AC 32A 7.2 KW
CHARGER**



App Control



Applications

-  Residential
-  Commercial
-  Public
-  Office

Specification

Rated Power	7kW
Input/Output Voltage	Single Phase 230V
Weight	5KG
Input/Output Current	32A
Frequency	50Hz
Connector	IEC Type 2
Cable Length	3m (5m optional)
Charging Status Information	LED/Display(optional)
Authorization	RFID/Plug and Charge/APP(optional)
Metering	MID Meter(optional)
Communication Method	LAN/4G/Wifi(optional)
Communication Protocol	OCPP1.6J (can be updated to 2.0)
Installation	Floor-mounted/Wall-mounted
Protection Rating	IP65/IK10
Operation Temperature	-30°C to +55°
Operation Altitude	≤ 2000m
Relative Humidity	5%-95%
RCD	TypeA+DC 6mA
EMC	Class B
Certification	CE/TR25/TUV Mark/RCM
Color	Bl ack/ White/Silver

Features

- Dynamic Load Management
- Optimal Charging Speeds
- Composite schedules
- Future Proof & Over the air updates
- Durability Guaranteed
- Multiple Connectivity options (Wifi, Bluetooth, 4G & Ethernet)
- Integrated Protections (Type B RCD)
- IP 65 & Ik10
- CE, TR25, TUV
- 1 Year Warranty

**TYPE 2 SOCKET
AC CHARGER**



App Control



Applications

-  Residential
-  Commercial
-  Public
-  Office

Specification

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Input/Output Voltage	Single Phase 230V
Weight	5KG
Input/Output Current	32A
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