SA10000-XXXXX-3XX
7000W-9000W-10000W

FEATURES





- High Charging Power Up to 10KW
- Support 1-Phase And 3-Phase Input Voltage
- Compact and Light Weight Design
- High Power Density
- Power Factor Correction
- Can Bus Communication
- Two Cooling Ways Options: Nature Cooling and Fans Cooling
- IP67 Protection Level
- Double Output Ports Options
- TF Card Realize Below Multiple Functions: Charger Software Update Automatically, Fault and Charging Records Local Save, Multi Protocols Local Save
- Multi Protection Mechanism, Anti-Surge, Short Circuit Protection, Input Over/Under-Voltage, Output Over/Under-Voltage, Over-Temperature Protection

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APPLICABLE STANDARDS

- The charger follow LVD Directives IEC/EN62477-1 and EMC Directive EN61000-6-2 and EN61000-6-4.
- The charger is CE UL FCC KC compliant. EMC radiation must be evaluated and tested in the complete system, since mounting and wiring have a large influence on radiation behavior.

DESCRIPTION

The SA10000-CB 1- or 3-phase alternating current into direct current and provides galvanic isolation between the public AC grid and the DC system of the industrial fleet. This allows for charging the battery on one hand, and on the other hand ensures the safety of both grids.

Battery charging is controlled by CAN, charger limits current and voltage to the values received by CAN. If for a certain time no such signals are received, the unit interrupts the charge to protect the battery.

To optimize the power factor of the changer, a mains-synchronized current control system was implemented. It is controlled by means of PFC topology (Power Factor Correction) as well as active control of current drawn from mains according to the momentary mains voltage.

MODEL LIST

SA10000-CB-36150-3BF	SA10000-CB-48150-3BF	SA10000-CB-80100-3BF	SA10000-CB-9680-3BF
SA10000-CB-36150-3CF	SA10000-CB-48150-3CF	SA10000-CB-80100-3CF	SA10000-CB-9680-3CF
SA10000-CB-36150-3EF	SA10000-CB-48150-3EF	SA10000-CB-80100-3EF	SA10000-CB-9680-3EF
SA10000-CB-36150-3BN	SA10000-CB-48150-3BN	SA10000-CB-80100-3BN	SA10000-CB-9680-3BN
SA10000-CB-36150-3CN	SA10000-CB-48150-3CN	SA10000-CB-80100-3CN	SA10000-CB-9680-3CN
SA10000-CB-36150-3EN	SA10000-CB-48150-3EN	SA10000-CB-80100-3EN	SA10000-CB-9680-3EN
SA10000-CB-15060-3BF	SA10000-CB-20045-3BF	SA10000-CB-31030-3BF	SA10000-CB-35025-3BF
SA10000-CB-15060-3CF	SA10000-CB-20045-3CF	SA10000-CB-31030-3CF	SA10000-CB-35025-3CF
SA10000-CB-15060-3EF	SA10000-CB-20045-3EF	SA10000-CB-31030-3EF	SA10000-CB-35025-3EF
SA10000-CB-15060-3BN	SA10000-CB-20045-3BN	SA10000-CB-31030-3BN	SA10000-CB-35025-3BN
SA10000-CB-15060-2CN	SA10000-CB-20045-3CN	SA10000-CB-31030-3CN	SA10000-CB-35025-3CN
SA10000-CB-15060-3EN	SA10000-CB-20045-3EN	SA10000-CB-31030-3EN	SA10000-CB-35025-3EN

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BASIC CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.
Input Voltage Range (Ac)	3P	220VDC (2)		480VDC
	1P	85VAC		300VAC
Input Frequency		45Hz		65Hz
X Capacity			2.2µF	
Y Capacity L1 -> PE			15.1nFX3	
Input Current	Max. 1-phase		16A	
Max. Input Power	110 VAC		1.5KW	
	@1P 220 VAC		3.1KW	
	@3P 220 VAC		5.2KW	
	@3P 323-520 VAC		10.5KW	
Power Factor			>0.99	
Mains Protection (All Phases)			3A	
Output Voltage Range (Dc)	SA10000-CB-36150-3BX	15VDC		48VDC
	SA10000-CB-48150-3BX	20VDC		63VDC
	SA10000-CB-80100-3BX	33VDC		115VDC
	SA10000-CB-9680-3BX	38VDC		126VDC
	SA10000-CB-15060-3BX	59VDC		193VDC
	SA10000-CB-20045-3BX	78VDC		257VDC
	SA10000-CB-31030-3BX	120VDC		400VDC
	SA10000-CB-35025-3BX	136VDC		450VDC
Max. Charging Current @3P380/400/480VAC	SA10000-CB-36150-3BX			150A
	SA10000-CB-48150-3BX			150A
	SA10000-CB-80100-3BX			100A
	SA10000-CB-9680-3BX			80A
	SA10000-CB-15060-3BX			60A
	SA10000-CB-20045-3BX			45A
	SA10000-CB-31030-3BX			30A
	SA10000-CB-35025-3BX			25A
Max. Charging Power @3P380/400/480VAC	SA10000-CB-36150-3BX			7KW
	SA10000-CB-48150-3BX			9KW
	SA10000-CB-80100-3BX			10KW
	SA10000-CB-9680-3BX			
	SA10000-CB-15060-3BX			
	SA10000-CB-20045-3BX			
	SA10000-CB-31030-3BX			
	SA10000-CB-35025-3BX			
Max. Charging Current @3P220VAC	SA10000-CB-36150-3BX			107A
	SA10000-CB-48150-3BX			83A
	SA10000-CB-80100-3BX			50A
	SA10000-CB-9680-3BX			40A
	SA10000-CB-15060-3BX			30A
	SA10000-CB-20045-3BX			23A
	SA10000-CB-31030-3BX			15A
	SA10000-CB-35025-3BX			13A

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BASIC CHARACTERISTICS

Max. Charging Power @3P220VAC	SA10000-CB-36150-3BX			5KW
	SA10000-CB-48150-3BX			
	SA10000-CB-80100-3BX			
	SA10000-CB-9680-3BX			
	SA10000-CB-15060-3BX			
	SA10000-CB-20045-3BX			
	SA10000-CB-31030-3BX			
	SA10000-CB-35025-3BX			
Max. Charging Power (1 Phase Input)	@1P220VAC			3KW
	@110VAC			1.5KW
Charging Voltage Accuracy			0.5%	
Charging Current Accuracy			0.5%	
Efficiency (Max)				95%

BASIC CHARACTERISTICS

Parameter	Condition	Min.	Typ.	Max.
Input Voltage (AC)	3P	323VAC		520VAC
	1P	85VAC		300VAC
Max. Input Current (1-Phase)				16A
Input Frequency		45Hz		65Hz
Max. Input Power	@3P 323-520 VAC			10.5KW
	@1P 220VAC			3.1KW
Power Factor			>0.99	
Mains Protection All Phase	L1		50A	
	L2, L3		25A	
X Capacity			13.1µF	
Y Capacity L1 -> Pe			49nF	
Output Voltage Range (DC)	SA10000-CB-36150-3CX	15VDC		48VDC
	SA10000-CB-48150-3CX	20VDC		63VDC
	SA10000-CB-80100-3CX	33VDC		115VDC
	SA10000-CB-9680-3CX	38VDC		126VDC
	SA10000-CB-15060-3CX	59VDC		193VDC
	SA10000-CB-20045-3CX	78VDC		257VDC
	SA10000-CB-31030-3CX	120VDC		400VDC
	SA10000-CB-35025-3CX	136VDC		450VDC
Charging Voltage Accuracy			0.5%	
Charging Current Accuracy			0.5%	
Max. Charging Current (3phase Input)	SA10000-CB-36150-3CX			150A
	SA10000-CB-48150-3CX			150A
	SA10000-CB-80100-3CX			100A
	SA10000-CB-9680-3CX			80A
	SA10000-CB-15060-3CX			60A
	SA10000-CB-20045-3CX			45A
	SA10000-CB-31030-3CX			30A
	SA10000-CB-35025-3CX			25A

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BASIC CHARACTERISTICS

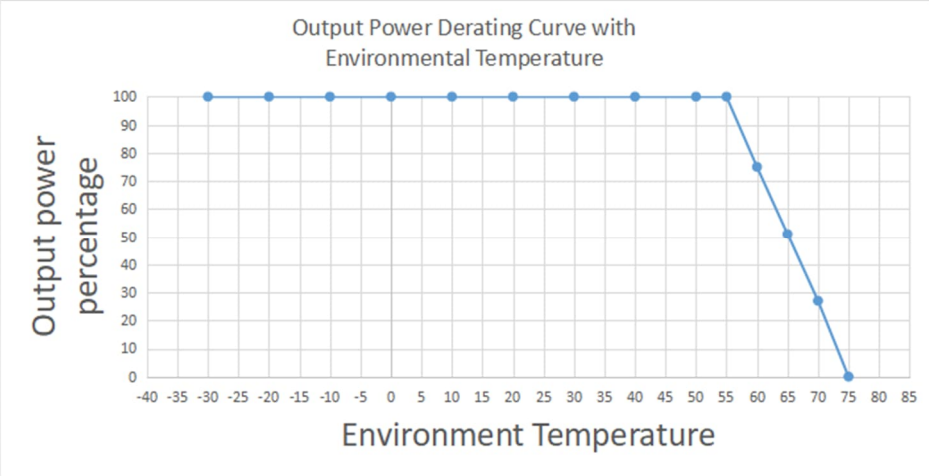
Max. Charging Power (3 Phase input)	SA10000-CB-36150-3CX			7KW
	SA10000-CB-48150-3CX			9KW
	SA10000-CB-80100-3CX			10KW
	SA10000-CB-9680-3CX			
	SA10000-CB-15060-3CX			
	SA10000-CB-20045-3CX			
	SA10000-CB-31030-3CX			
	SA10000-CB-35025-3CX			
Max. Charging Power (1 Phase input) @1P 220VAC	SA10000-CB-36150-3CX			3KW
	SA10000-CB-48150-3CX			
	SA10000-CB-80100-3CX			
	SA10000-CB-9680-3CX			
	SA10000-CB-15060-3CX			
	SA10000-CB-20045-3CX			
	SA10000-CB-31030-3CX			
	SA10000-CB-35025-3CX			
Efficiency (Max)				95%

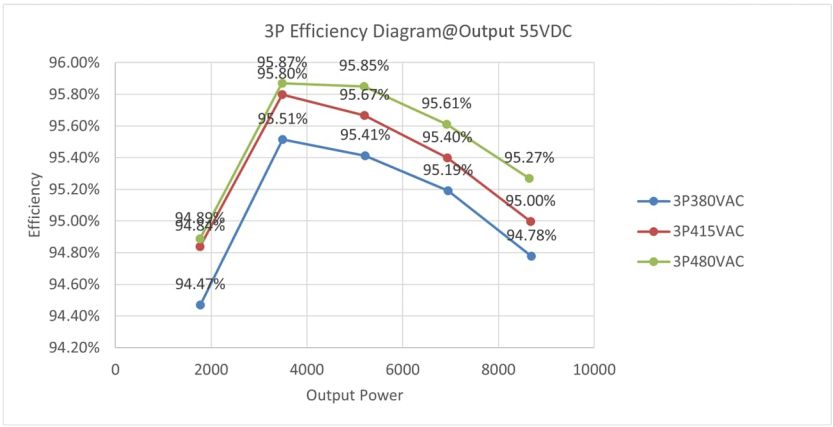
BASIC CHARACTERISTICS

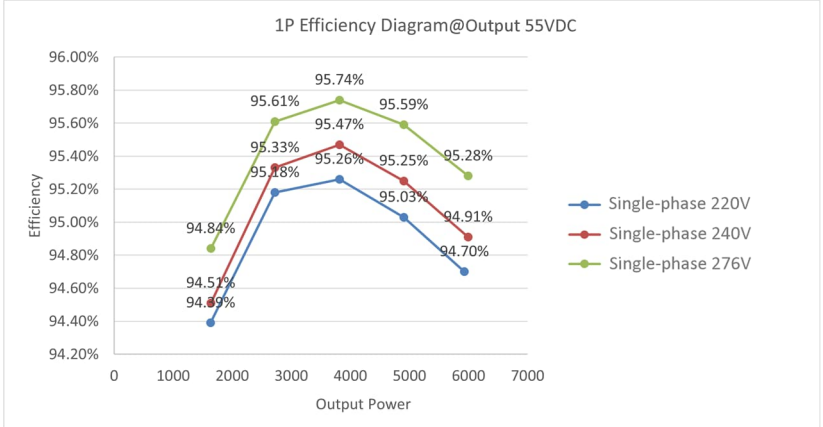
Parameter	Condition	Min.	Typ.	Max.
Input Voltage (AC)	3P		600VAC	
	1P	85VAC		300VAC
Max. Input Current (1-Phase)	@3P 600VAC			12A
	@1P 85-300VAC			15A
Input Frequency		45Hz		65Hz
Max. Input Power	@3P 600VAC			10.5KW
	@1P 220VAC			3.1KW
	@110VAC			1.5KW
Power Factor			>0.99%	
Mains Protection (All Phases)	L1		50A	
	L2, L3		25A	
X Capacity			13.1µF	
Y Capacity L1 -> PE			15.1nFX3	
Output Voltage Range	SA10000-CB-36150-3EX	15VDC		48VDC
	SA10000-CB-48150-3EX	20VDC		63VDC
	SA10000-CB-80100-3EX	33VDC		115VDC
	SA10000-CB-9680-3EX	38VDC		126VDC
	SA10000-CB-15060-3EX	59VDC		193VDC
	SA10000-CB-20045-3EX	78VDC		257VDC
	SA10000-CB-31030-3EX	120VDC		400VDC
	SA10000-CB-35025-3EX	136VDC		450VDC
Max. Charging Current (3 Phase Input)	SA10000-CB-36150-3EX			150A
	SA10000-CB-48150-3EX			150A
	SA10000-CB-80100-3EX			100A
	SA10000-CB-9680-3EX			80A
	SA10000-CB-15060-3EX			60A
	SA10000-CB-20045-3EX			45A
	SA10000-CB-31030-3EX			30A
	SA10000-CB-35025-3EX			25A

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BASIC CHARACTERISTICS				
Max. Charging Power (3 Phase input)	SA10000-CB-36150-3EX			7KW
	SA10000-CB-48150-3EX			9KW
	SA10000-CB-80100-3EX			10KW
	SA10000-CB-9680-3EX			
	SA10000-CB-15060-3EX			
	SA10000-CB-20045-3EX			
	SA10000-CB-31030-3EX			
	SA10000-CB-35025-3EX			
Charging Voltage and Current Accuracy			0.5%	
Max. Charging Power (1 Phase Input)	@1P 220VAC			3KW
	@110VAC			1.5KW
Efficiency (max)				95%



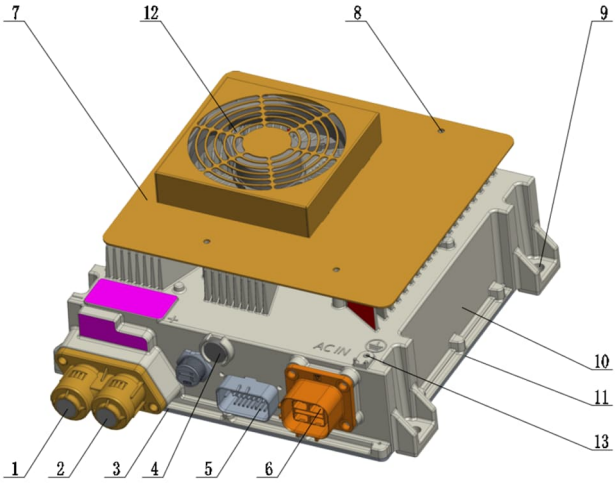




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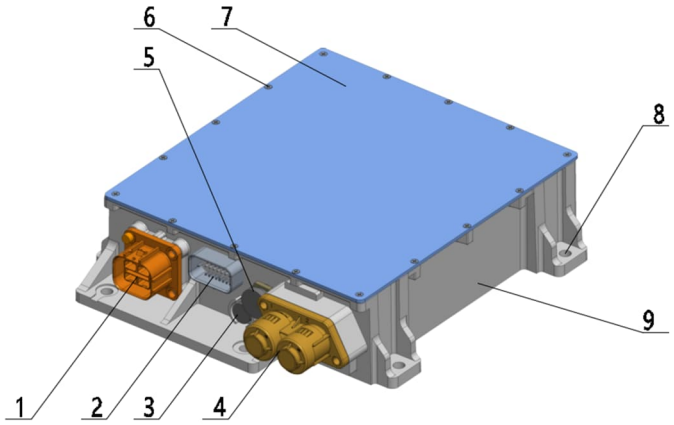
MAIN STRUCTURAL COMPONENTS

Pin No.	Configuration
1	Output Positive
2	OUTPUT NEGATIVE
3	TF Card Slot
4	Waterproof breather
5	Communication Socket
6	AC input Socket
7	Fans Cover
8	Cover Fixing Screw Hole
9	Charger Fixing Screw Point
10	Housing
11	Charger Bottom Plate
12	Fans
13	PE Earthing Point



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MAIN STRUCTURAL COMPONENTS	
Pin No.	Configuration
1	AC Input Socket
2	Communication Socket
3	Waterproof Breather
4	Output Positive and Negative
5	TF Card Slot
6	Cover Plate Screw
7	Cover Plate
8	Screw Fixing Point
9	Housing

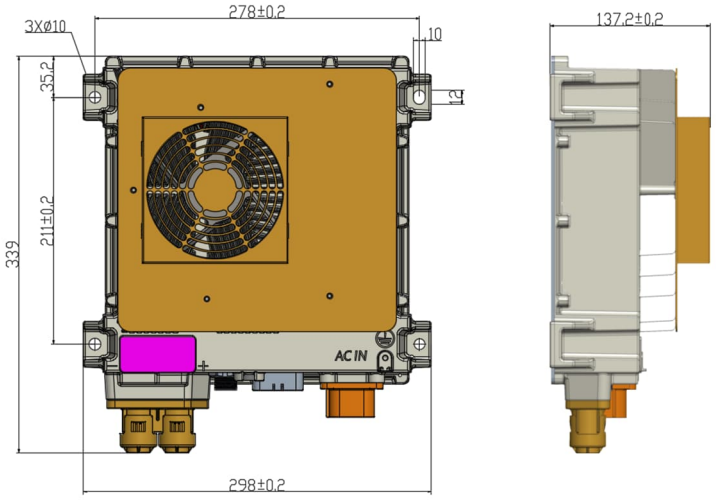


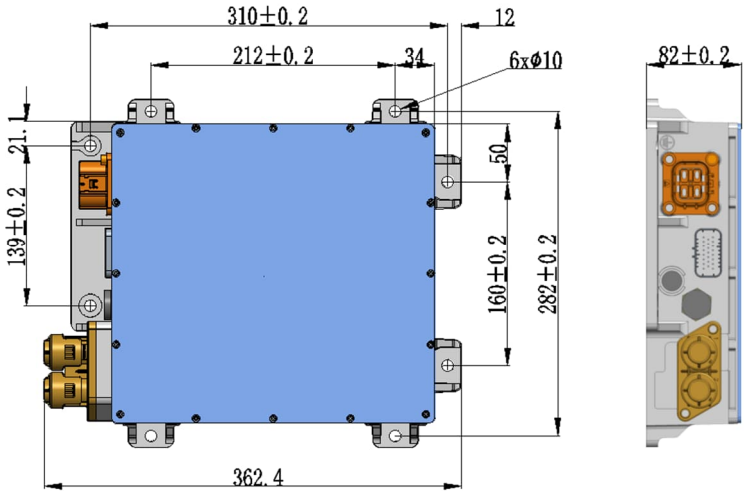
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DIMENSIONS & CONNECTIONS

MECHANICAL DATA

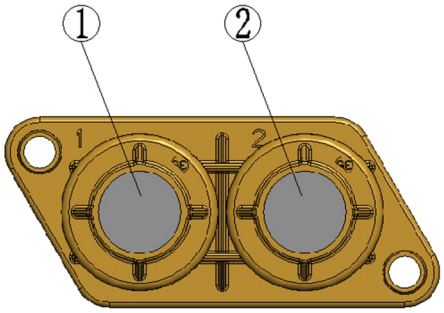
BASIC Mechanical Data	SA10000-CB-XXXXX-3XF SERIES	SA10000-CB-XXXXX-3XN SERIES
Weight	10.5Kg	10.3Kg
Enclosure Material	Aluminum Casting	
IP Protection Class	IP67	
Height	137mm	82mm
Width	298mm	292mm
Length	339mm	362mm



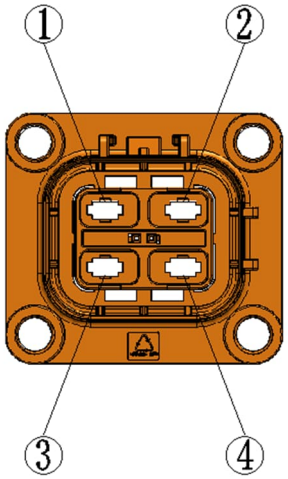


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PIN DC OUTPUT PORT		
Pin No.	Configuration	Function
1	DC+	BATT+
2	DC-	BATT-



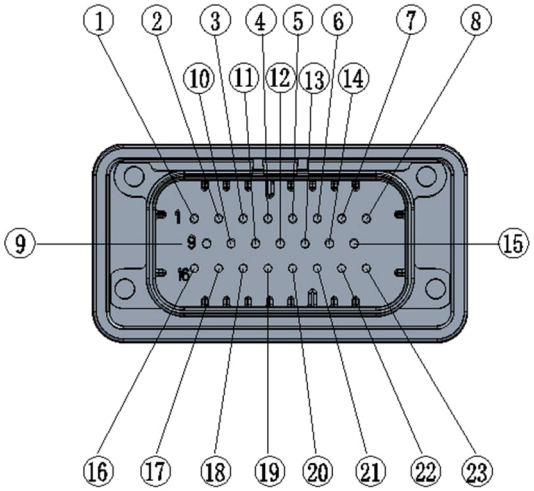
PIN AC PLUG		
Pin No.	Configuration	Function
1	L3	Grey Live Wire
2	L2	Brown Live Wire
3	L1	Black Live Wire
4	N/NONE	Blue Neutral Wire/No Neutral Wire



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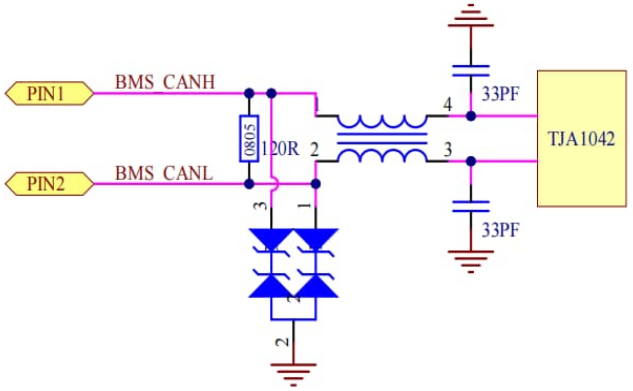
PIN OF COMMUNICATION PORT

Pin No.	Configuration	Function
1	BMS CAN_H	Communicate with BMS CAN_H
2	BMS CAN_L	Communicate with BMS CAN_L
3	INTERNALCAN_H	Master-Slave Communication CAN_H
4	INTERNAL CAN_L	Master-Slave Communication CAN_L
5	LOCK_NC	Normally Closed Contact
6	LOCK_NO	Normally Open Contact
7	PP/CC1	AC Charging Gun Connection Confirmation Signal/ DC Gun CC1 Signal
8	CP	AC Charging Gin Control Pilot
9	HMI_5V+	External Output 5V+, Max Output 1A
10	UART0_TX@HMI	Serial Port TX Signal
11	UART0_RX@HMI	Serial Port RX Signal
12	HMI_5v-	External Output 5V-, Max Output 1A
13	LOCK_COM	Common Terminal
14	T2+	Charging Gun Temperature Signal T2+
15	T1+	Charging Gun Temperature Signal T1+
16	BMS_12V+	External Output 12V+, Wake-up BMS
17	BMS_12V-	External Output 12V-, Wake-up BMS
18	NC	No Connection
19	EL+	Electromagnetic Lock Engagement Signal+
20	EL-	Electromagnetic Lock Release Signal-
21	RS-	Electromagnetic Lock Positioned Signal-
22	RS+	Electromagnetic Lock Positioned Signal+
23	T-	Charging Gun Temperature Signal Ground



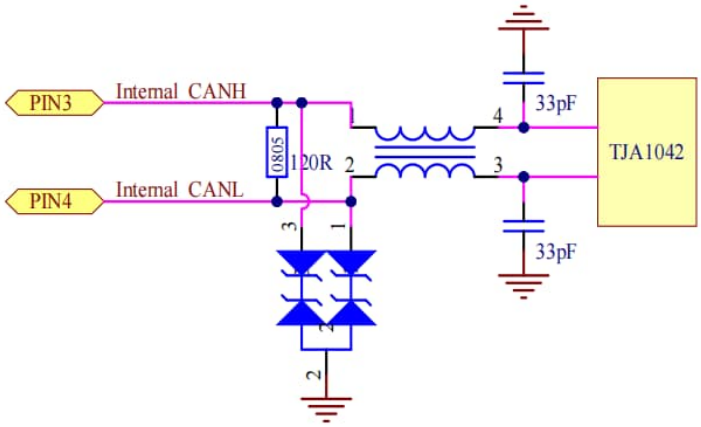
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BMS CAN_H / BMS CAN_L



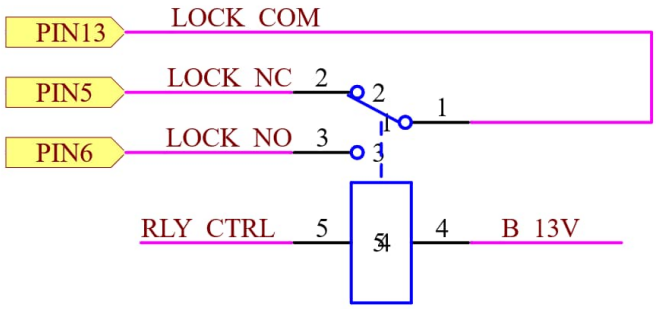
FUNCTION INSTRUCTION: Connected to BMS CAN bus, built-in 120R terminating resistor, does not support CAN wake-up function.

INTERNAL CAN_H / INTERNAL CAN_L



FUNCTION INSTRUCTION: Master-Slave connection for multi-charger parallel operation, classified internal CAN communication.

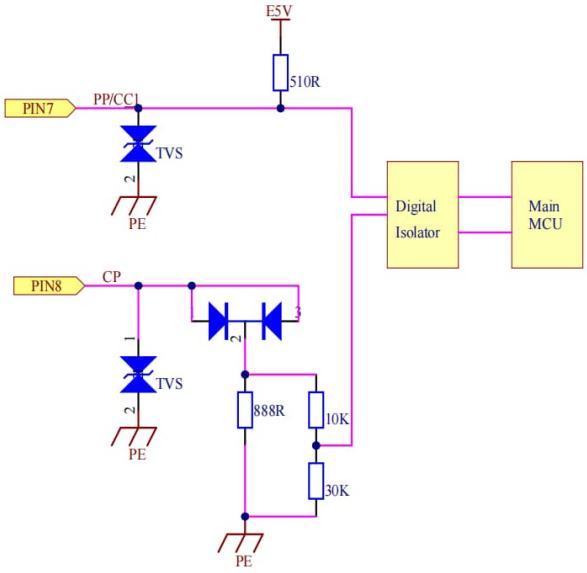
LOCK_NC / LOCK_NO / LOCK_COM



FUNCTION DESCRIPTIONS: The onboard charger provides a set of normally open or normally closed contacts for customer use. These are commonly used for a self-locking function, preventing movement while charging.

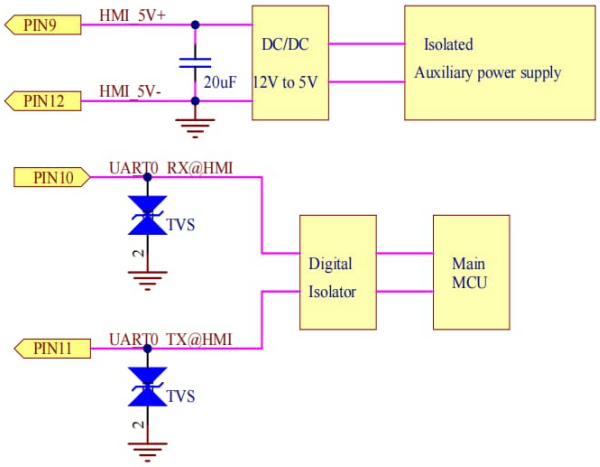
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PP / CC1 / CP



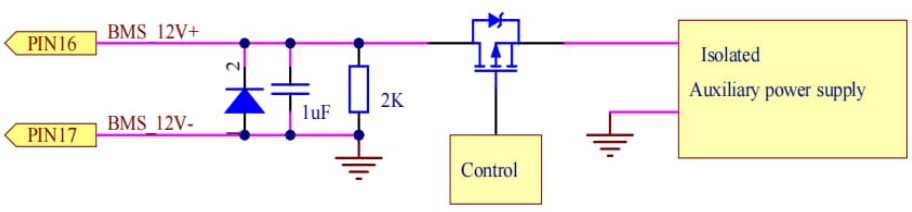
FUNCTION INSTRUCTION: Pin 7 is compatible with AC charging gun's PP signal and DC charging gun's CC1 signal. Pin 8 is CP signal input.

HMI_5V+ / UART0_TX@HMI / UART0_RX@HMI / HMI_5V-



FUNCTION INSTRUCTION: Pin 9 and Pin 12 provide external 5V+ and 5V- output, capable of supplying 0.5A, default for external LCD screen power supply. Pin 10 and pin 11 are for external LCD screen serial communication.

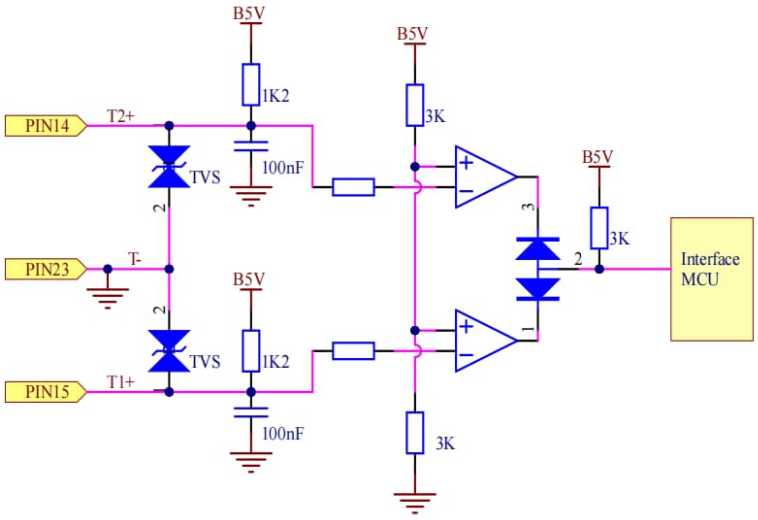
BMS_12V+ / BMS_12V-



FUNCTION INSTRUCTION: 16 and 17 two pins provide external 12v signal, with a maximum power supply capacity of 5A and typical value of 3A, used to wake-up the BMS system.

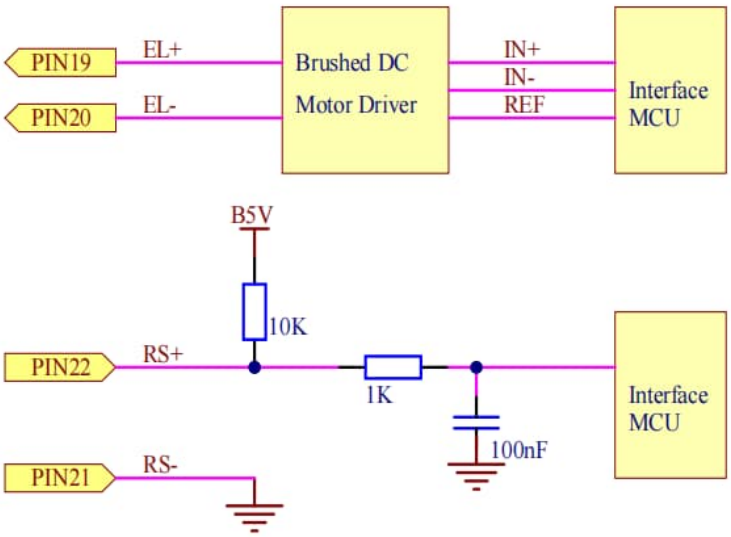
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T2+ / T1+ / T-



FUNCTION INSTRUCTION: Pin 14 and Pin 15 are 2-channel charging gun temperature input signals, sharing ground with Pin 23.

EL+ / EL- / RS- / RS+

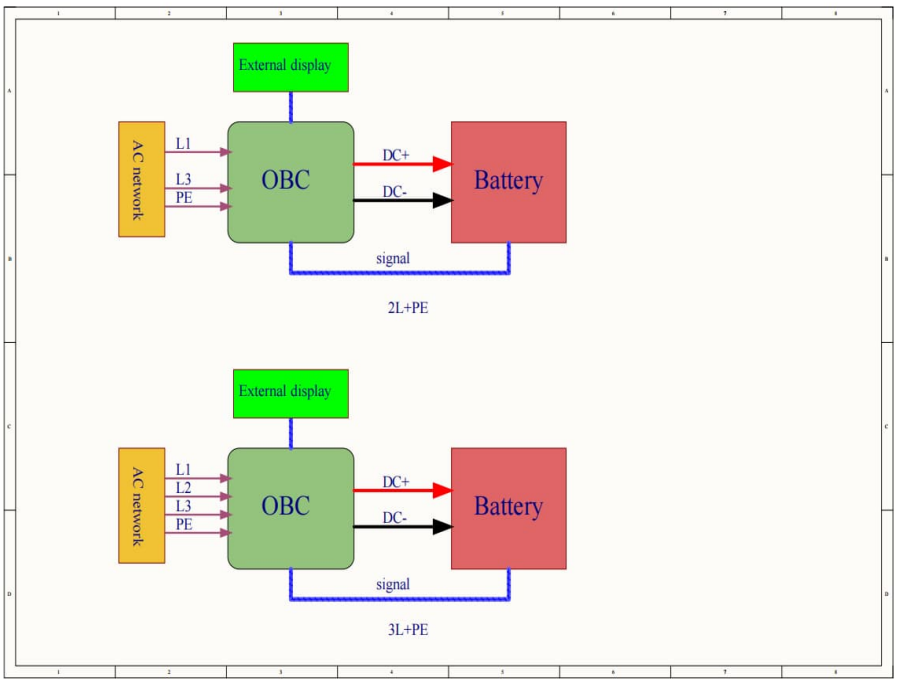


FUNCTION INSTRUCTION: Pin 19 and 20 are the drive signals for closing and opening the electromagnetic lock. Pins 21 and 22 are the position input signals for the electromagnetic lock.

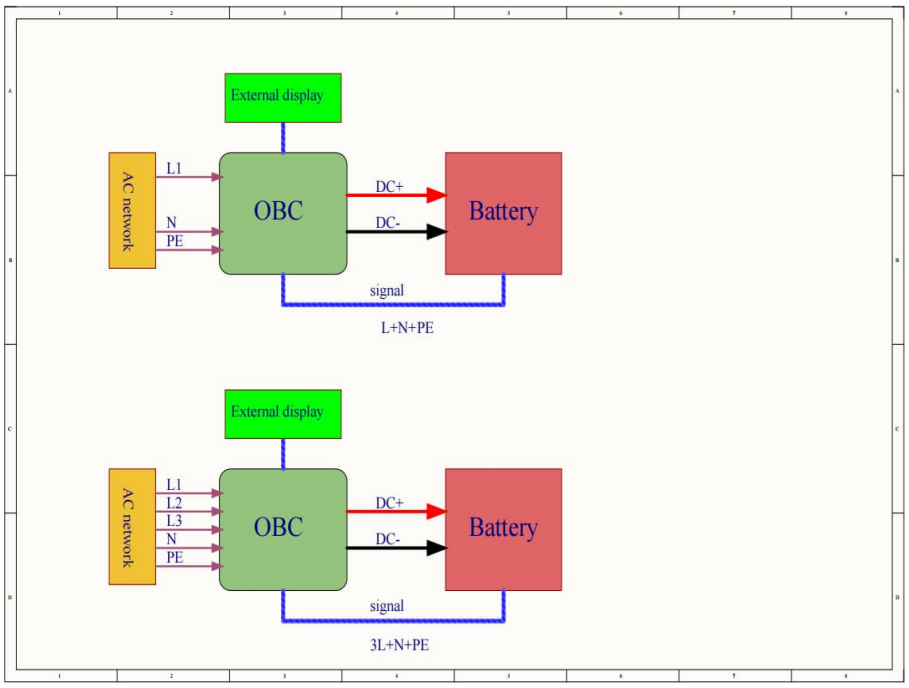
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CHARGER INSTALLATION BASIC PRINCIPLE

INPUT WIRING TYPE 1: L1+L2+L3+PE & L1+L3+PE



INPUT WIRING TYPE: L+N+PE & L1+L2+L3+N+PE



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CAN PARAMETERS

Parameter	SA10000 SERIES
CAN 2.0	125/250/500 kBd
CAN baud rate	17 pF
CAN High-Low Input Resistance	120RΩ

SAFETY AND PROTECTIVE FUNCTIONS

Parameter	Type	Value	
Mains Input Over-Voltage/Under-Voltage Protection (3P Input)		Min	Max
		180V	690V
Mains Input Over-Voltage/Under-Voltage Protection (1P Input)		85V	300V
Output Over-Voltage/Under-Voltage Protection		YES	
Short Circuit Protection		YES	
Charger Over-Temperature Protection (Ambient Temperate)	Over 55°C Reduce Power Over 75°C Stop Working		
Isolation Resistor (initial) min.		>5 MΩ	
Overcurrent Protection	Integrated in the charger to avoid overload damage		

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FAULT CODE

Fault Code	Item	Description	Resolution
E01	Ac Input Overvoltage	Input Voltage Exceeds the Permissible Value	Stop Charging
E02	Ac Input Undervoltage	Input Voltage Is Below the Permissible Value	Stop Charging
E03	Output Overvoltage	Charger Output Voltage Exceeds the Limit	Stop Charging, Limit the Charger Output Voltage
E04	Output Undervoltage	Charger Output Voltage Is Below the Limit	Stop Charging, Limit the Charger Output Voltage
E05	Output Overcurrent	Charger Output Current Exceeds the Limit	Stop Charging, Limit the Charger Output Current
E06	Power Module Overtemperature	Charger Temperature Is Too High	Stop Charging, wait for the Charger to Cool Down
E07	Control Board Overtemperature	Charger Temperature Is Too High	Stop Charging, wait for the Charger to Cool Down
E08	Power Module Fan Failure	Fan Cannot Start Normally	Stop Charging, Check if the Fan Operates Properly
E09	Control Board Fan Failure	Fan Cannot Start Normally	Stop Charging, Check if the Fan Operates Properly
E10	Ac Input Phase Loss (Three-Phase Input)	Ac Input Phase Loss On Charger	Stop Charging, Check for Loose Wiring or Missing Phase Voltage on the Input Terminal
E11	Ac Input N-Line Loss	N-Line Is Missing on Ac Input Terminal	Stop Charging, Check for Loose Wiring or Missing Phase Voltage on the Input Terminal
E12	Power Module Hardware Failure	Hardware Fault in Charger	Stop Charging, Contact the Charger Manufacturer
E13	Power Module Communication Fault (Dual-Module Charger)	Master-Slave Communication Fault	Stop Charging, Contact the Charger Manufacturer
E14	Control Board Hardware Failure	Hardware Fault in Charger	Stop Charging, Contact the Charger Manufacturer
E15	Battery Reversal	Battery Polarity Reversed	Stop Charging, Confirm Battery Polarity with the Bms Manufacturer
E16	Output Short Circuit	Short Circuit on the Charger Output Terminal	Stop Charging, Check the Output Polarity Connection
E17	Charging Gun Overtemperature	Charger Output Gun Head Overheated	Stop Charging, wait for the Gun Head to Cool Down
E18	Charging Gun Temperature Sensor Fault	Hardware Fault in Charger	Stop Charging, Contact the Charger Manufacturer
E19	Battery Connection Failure	No Battery Voltage Detected by Charger	Stop Charging, Check if Output Polarity is Connected
E20	Communication Connection Failure	No Battery Message Received by Charger	Stop Charging, Check if Signal Lines are Connected
E21	Relay Fault	Hardware Fault in Charger	Stop Charging, Contact the Charger Manufacturer
E22	Gun Head Lock Fault	Output Gun Head Lock Fault	Stop Charging, Replace the Charger Output Gun Head
E23	Auxiliary Power Failure	Hardware Fault in Charger	Stop Charging, Contact the Charger Manufacturer
E24	Insulation Fault	Charger Not Insulated	Stop Charging, Check If Charger Harness Has Come Loose
E25	Grounding Fault	No Grounding Detected on Charger Input	Stop Charging, Check the Charger Input Harness Connection
E26	Cccp Fault	No Cccp Signal Detected on Charger Input	Stop Charging, Contact the Charger Manufacturer
E27	Cc1 Fault	Abnormal Cc1 Resistance Detected on Output	Stop Charging, Contact the Charger Manufacturer
E28	Hardware Mismatch	Charger Configuration Error	Stop Charging, Contact the Charger Manufacturer
E29	Reserved	Reserved	Reserved
E30	Reserved	Reserved	Reserved
E31	Reserved	Reserved	Reserved
E32	Bms: Battery Overtemperature	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E33	Bms: Battery Low Temperature	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E34	Bms: Battery Overcurrent	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E35	Bms: Voltage Abnormal	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E36	Bms: Insulation Fault	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E37	Bms: Communication Fault	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E38	Bms: Hardware Fault	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E39	Bms: Cell Overvoltage	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E40	Bms: Total Voltage Overvoltage	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E41	Bms: Total Voltage Undervoltage	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E42	Bms: Cell Undervoltage	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E43	Bms: Interlock Protection Fault	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting

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FAULT CODE

E44	Bms: Excessive Cell Voltage Difference	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E45	Bms: Excessive Temperature Difference	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E46	Bms: Connector Fault	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E47	Bms: Output Connector Overtemperature	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E48	Bms: Component Overtemperature	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E49	Bms: Relay Fault	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E50	Bms: Cc Signal Not Detected	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E51	Bms: Voltage Fault At Point 2	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting
E52	Bms: Other Faults	Battery Fault	Stop Charging, Contact the Battery Manufacturer for Troubleshooting

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