

充电连接器

Charging Connector Catalogue **Version A**

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Type1 AC Charging Cable

SAE J1772 Standard



FEATURE

-  Overmold design with high-structure strength and IP55 rating
-  Ergonomic design, easy to operate
-  Applicable in multiple regions :
UL, PSE, VPC, KC etc. certified
-  Offer GEN3 (standard version) and GEN4 (thinner cable version) cables



SPECIFICATION

Rated Current	UL : 16A / 32A / 40A / 50A / 65A / 80A KC : 50A VPC : 32A / 50A PSE : 16A / 32A / 50A
Rated Voltage	250V AC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP55
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / TPE
Color	Black, White

CCS1 DC Charging Cable

SAE J1772 Standard



FEATURE

-  Flexible cable at -40°C low temperature
-  Low heat productivity
-  Built-in temperature sensor
-  Replaceable plug, terminal and latch
-  Applicable in multiple regions :
UL, CE, CB, etc. certified



SPECIFICATION

Rated Current	UL : 100A / 150A / 200A / 250A / 300A / 350A CE & CB : 200A / 250A / 300A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP66
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / PC
Color	Black

CCS1 Home DC Charging Cable

SAE J1772 Standard

FEATURE

-  Ergonomic design with 45° handle
-  Easy to operate
-  Low heat productivity
-  Built-in temperature sensor
-  Replaceable plug, terminal and latch



SPECIFICATION

Rated Current	20A - 80A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP67
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / PC
Color	Black

CCS1 Liquid DC Charging Cable

SAE J1772 Standard



FEATURE

-  Low heat productivity
-  Replaceable plug, terminal and latch
-  Thinner and lighter cable, convenient to operate
-  Available coolant option of water-glycol and silicon oil



SPECIFICATION

Rated Current	Oil and Water Cooled : 500-800A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP67
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / PC
Color	Black

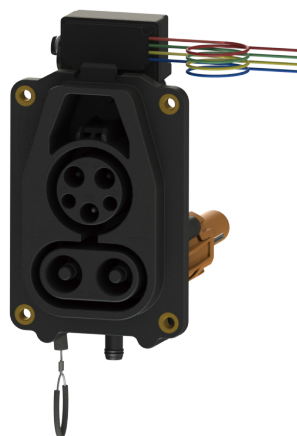
CCS1 Charging Inlet

SAE J1772 Standard



FEATURE

-  Customized interface
-  Modular design, facilitating assembly
-  Cable-out angle of 90° and 180°
-  IP67/ IP6K9K for body area
-  Compatible for aluminum busbar, aluminum rod and copper wires



SPECIFICATION

Charging Mode	Mode 2, 3, 4
Temperature Monitoring	AC terminals : 2 x NTC / DC terminals : 2 x PT1,000 (NTC)
Operating Ambient Temp.	-40°C up to 80°C
Mating Cycles	Min. 10,000 cycles
Mating Force	< 100N with Phoenix Contact connector
IP Protection	IP67 body area & cable out area / IP54 with connector
DC Charging	1,000V DC / 125A, 200A, 250A (continuous charging)
AC Charging	1 Phase, 250V AC / Up to 80A
Wire Range	50-120mm ² DC Power cable : comply with LV216 standards 10-16mm ² AC Power cable : comply with LV216 standards 25 / 35mm ² PE cable : comply with ISO6722-1
Locking Actuator	12V power supply

NACS AC Charging Cable

SAE J3400 Standard



FEATURE

-  Available design of clamshell and overmold
-  Robust material selection for longer lifespan
-  Thinner and lighter cable, convenient to operate
-  Compatible to open Tesla charge port with embedded RF module



SPECIFICATION

Rated Current	32A / 40A / 50A / 60A / 80A
Rated Voltage	240V AC
Insertion & Extraction Force	F < 100N
Connector Durability	10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP67
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / PC Nylon / TPE (overmold version)
Color	Black

SAE Standard

NACS DC Charging Cable

SAE J3400 Standard



FEATURE

-  Excellent control of temperature rise
-  Rated current up to 400A, boosting to 600A
-  Thinner and lighter cable, convenient to operate
-  Compatible to open Tesla charge port with embedded RF module



SPECIFICATION

Rated Current	UL : 100A / 150A / 200A / 250A / 300A / 350A / 375A / 400A KC : 250A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	10,000 cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP67
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	400A : -40°C~+45°C, Others : -40°C~+50°C
Material	Nylon / PC
Color	Black

NACS Liquid DC Charging Cable

SAE J3400 Standard



FEATURE

-  Flexible cable and stable performance at low temperature
-  Replaceable plug and terminal
-  Thinner and lighter cable, convenient to operate
-  Available coolant option of water-glycol and silicon oil



SPECIFICATION

Rated Current	Oil HPC : 1,000A / Water HPC : 1,000A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP67
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / PC
Color	Black

NACS AC / DC Charging Inlet

SAE J3400 Standard

FEATURE

-  Customized interface
-  Modular design, facilitating assembly
-  Cable-out angle of 90° and 180°
-  High power charging, boosting to 500A
-  Compatible for aluminum busbar, aluminum rod and copper wires



SPECIFICATION

Rated Current	AC : 32A-80A , DC : 300A
Rated Voltage	240V AC / 1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	>10,000 cycles
Flame Retardant Grade	UL94 V-0
Waterproof	Body Area : IP67 / IP6K9K
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+80°C
Wire range	AC : 6mm ² F, DC : 70~95mm ² -Copper Wire 120-200 mm ² -AL. busbar
Flange / LED	Option, Customized
Cable Out Angle	90° / 180°

IEC Standard

Type2 AC Charging Cable

IEC Standard

CE

FEATURE

-  Overmold design with high-structure strength and IP55 rating
-  Ergonomic design, easy to operate
-  Offer Type2 and Type2-to-Type2 cable
-  Tested in accordance with EV ready 37



SPECIFICATION

Rated Current	20A / 32A 1-phase 3-phase
Rated Voltage	250V / 480V AC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP55
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / TPE
Color	Black, White

IEC Standard

CCS2 DC Charging Cable

IEC Standard

CE CB

FEATURE

-  Flexible cable at -40°C low temperature
-  Low heat productivity
-  Replaceable plug and terminal
-  Rated current up to 400A, boosting to 600A



SPECIFICATION

Rated Current	V1 : 100A / 150A / 200A / 250A / 300A / 350A / 375A / 400A V2 : 100A / 150A / 200A / 250A / 300A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP66
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	400A : -35°C~+40°C, Others : -35°C~+50°C
Material	Nylon / PC
Color	Black

CCS2 Home DC Charging Cable

IEC Standard

CE CB

FEATURE

-  Easy to operate
-  High-structure strength with excellent waterproof performance
-  Low heat productivity
-  Built-in temperature sensor



SPECIFICATION

Rated Current	20A~80A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP55
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / TPE
Color	Black

IEC Standard

CCS2 Liquid DC Charging Cable

IEC Standard

CE

FEATURE

-  Flexible cable and stable performance at low temperature
-  Replaceable plug and terminal
-  Thinner and lighter cable, convenient to operate
-  Available coolant option of water-glycol and silicon oil



SPECIFICATION

Rated Current	Oil and Water Cooled : 500-800A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP67
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / PC
Color	Black

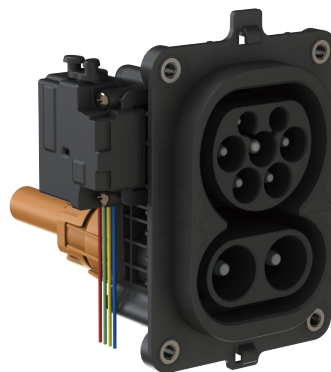
CCS2 Charging Inlet

IEC Standard



FEATURE

-  Customized interface
-  Modular design, facilitating assembly
-  Cable-out angle of 90° and 180°
-  Compatible for aluminum busbar, aluminum rod and copper wires
-  IP67/ IP6K9K for body are



SPECIFICATION

Charging Mode	Mode 2, 3, 4
Temperature Monitoring	AC terminals : 2 x NTC / DC terminals : 2 x PT1,000 (NTC)
Operating Ambient Temp.	-40°C up to 80°C
Mating Cycles	Min. 10,000 cycles
Mating Force	< 100N with Phoenix Contact connector
IP Protection	IP67 body area & cable out area / IP54 with connector
DC Charging	1,000V DC / 125A, 200A, 250A (continuous charging)
AC Charging	250V AC 1-phase / 32A or 480V AC 3-phase / 32A
Wire Range	50-120mm ² DC Power cable : comply with LV216 standards 10-16mm ² AC Power cable : comply with LV216 standards 25 / 35mm ² PE cable : comply with ISO6722-1
Locking Actuator	12V power supply

GB Standard

GB AC Charging Cable

GB Standard

FEATURE



Overmold design with high-structure strength and IP55 rating



Ergonomic design, easy to operate



Multiple design verification



Low heat productivity



SPECIFICATION

Rated Current	16A~63A
Rated Voltage	250V / 440V AC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP55
Terminal Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+50°C
Material	Nylon / TPE
Color	Black, White

GB AC Charging Inlet

GB Standard



FEATURE

-  Customized interface
-  Modular design, facilitating assembly
-  Touch proof
-  Compatible for aluminum busbar, aluminum rod and copper wires
-  IP67/ IP6K9K for body area



SPECIFICATION

Rated Current	10A / 16A / 32A / 63A
Rated Voltage	250V / 400V AC
Insertion & Extraction Force	F < 100N
Connector Durability	> 10,000 Cycles
Protection Grade	Mated : IP55 / Unmated : IP54 / Cable Out : IP67
Operating Ambient Temp.	Operating : -40°C~+50°C / Storage : -40°C~+85°C

GB DC Charging Cable

GB Standard

FEATURE

-  Flexible cable at -40°C low temperature
-  Low heat productivity
-  Replaceable plug and terminal
-  Smaller cable OD achieving higher capacity



SPECIFICATION

Rated Current	125A~350A
Rated Voltage	1,000V DC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP66
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	-40°C~+40°C
Material	Nylon / PC
Color	Black

GB DC Charging Inlet

GB Standard

FEATURE

-  Customized interface, touch proof
-  Modular design, facilitating assembly
-  High power charging
-  Compatible for aluminum busbar, aluminum rod and copper wires
-  IP67/ IP6K9K for body area



SPECIFICATION

Rated Voltage	750V / 1,000V DC
Insertion & Extraction Force	F < 140N
Rated Current	80A / 125A / 250A
Connector Durability	> 10,000 Cycles
Protection Grade	Mated : IP55 / Unmated : IP54 / Cable Out : IP67
Operating Ambient Temp.	Operating : -40°C~+50°C / Storage : -40°C~+85°C

Cooling Unit



FEATURE

-  Excellent heat exchange performance of 5kW
-  Stable operation under low temperature of -40°C
-  Innovative split design, components are free to be allocated according to assembly environment
-  Low noise during operation



SPECIFICATION

Rated Current	6.2A Max (Pump) / 1.5A Max (Fan)
Rated Voltage	24V DC
Heat Exchange	5 KW
Work Temperature	-40°C~+50°C
Coolant	Water & Oil
Coolant Flow	0~5 LPM
Pump & Fan Speed Regulation	0~5V INPUT / PWM

Mode 2 IC-CPD



FEATURE

-  Real-time monitoring for plug temperature
-  Customized styling design
-  3-color LED indicator
-  Strong electromagnetic compatibility



SPECIFICATION

Input Voltage Range	110V~250V AC
Input Voltage Mode	1-phase and 3-phase
Output Voltage Range	110V~250V AC
Maximum Output Current	6A / 8A / 10A / 13A
Maximum Output Power	3.25KW
Maximum Efficiency	≥ 99%
Protection Grade	IP55
Operating Ambient Temp.	-30°C~+50°C
Charging Standards Compatibility	SAE J1772 : 2016, IEC 62752 : 2016, IEC 62196-1 : 2014, IEC 62196-2 : 2016 GB / T 18487.1-2015, GB / T 20234.1-2015, GB / T 20234.2-2015

Mode 2 IC-CPD

With Detachable Plugs



FEATURE

-  Real-time monitoring for plug temperature
-  Customizable detachable plug
-  3-color LED indicator
-  Strong electromagnetic compatibility



SPECIFICATION

Input Voltage Range	110V~250V AC
Input Voltage Mode	1-phase and 3-phase
Output Voltage Range	110V~250V AC
Maximum Output Current	6A / 8A / 10A / 13A
Maximum Output Power	3.25KW
Maximum Efficiency	≥ 99%
Protection Grade	IP55
Operating Ambient Temp.	-30°C~+50°C
Charging Standards Compatibility	SAE J1772 : 2016, IEC 62752 : 2016, IEC 62196-1 : 2014, IEC 62196-2 : 2016

V2L Adaptor

GB / SAE / IEC Standard



FEATURE

-  Customized design
-  Compact and high-strength structure
-  Ergonomic design, easy to operate
-  Low heat productivity



SPECIFICATION

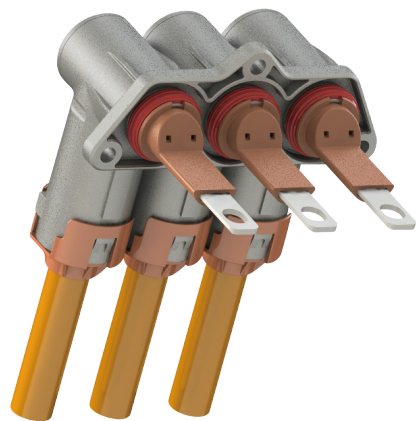
Rated Current	16A
Rated Voltage	110V~250V AC
Insertion & Extraction Force	F < 100N
Connector Durability	No-load Plug / Unplug > 10,000 Cycles
Flame Retardant Grade	UL94 V-0
Protection Grade	IP55
Contacts Temperature Rise	< 50K
Operating Ambient Temp.	SINBON OBM : -40°C~+50°C , Customized : -30°C~+50°C
Material	Nylon / PC
Color	Black / Customized

L Type High Voltage Connector

LV215 Standard

FEATURE

-  Customized interface
-  Single-pin or multi-pin
-  90° angle space-saving
-  IP67/ IP6K9K for body area
-  High vibration resistance



SPECIFICATION

Rated Voltage	1,000V DC
Rated Current	210A Max
Withstand Voltage (ISO 6469-3)	2,700V AC
Insulation Resistance (ISO 6469-3)	>200 MΩ
EMC Shielding	360° Shield, meet LV 215-1
Operating Ambient Temp.	-40°C up to 140°C operating
Safety Protection	IPXXB
IP Protection	IP67 & IP6K9K
Vibration Level	SG4 (LV215-1)
Wire Range	35-50mm ² Power cables that comply with LV 216 standards

Motorcycle Socket

IEC Standard / SAE J1772 Standard

FEATURE

-  Customized interface
-  Modular design, facilitating assembly
-  Drainage structure design, specialized for motorcycle
-  Compatible for aluminum busbar, aluminum rod and copper wires
-  IP67/ IP6K9K for body area



SPECIFICATION

Temperature Monitoring	AC terminals : 2 x NTC / DC terminals : 2 x NTC
Operating Ambient Temp.	-30°C up to 60°C operating / -30°C up to 85°C storage
Mating Cycles	Min. 10,000 cycles
Mating Force	< 75N
IP Protection	IP67 / IP6K9K body area (at mounting status)
DC Charging	1,000V DC / 200A Max. (continuous charging)
AC Charging	250V AC / 32A Max. (continuous charging)
Connection	Pin to PCB
Locking Actuator	12V power supply

CERTIFICATION

CE



CB



PSE



UL



VPC



KC



CQC 16029155399



CQC16029155400



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