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EV CHARGING SOLUTIONS
AG ELECTRICAL

Jayuan 佳远铜材

Hangzhou Jiayuan Industrial Co.,Ltd was established in 1993 and has 30 years of professional EV Charging production experience and core technology. With R&D team of 50 people, focusing on Electric Vehicle Charging Interface, Engineering Design and Supply Chain Integration.

All of our products were passed certificates of CE, TUV, UL. JIAYUAN handles independent R&D, Cable Production and its Assembling. Our vision is to serve in the global EV industry through utilizing the most advanced technologies, scientifically analyzing our products performance and by working with the pioneers, innovators, and key point leaders in the EV communities.

We deliver by fostering a work environment that values and rewards integrity, respect, and performance while contributing positively to the communities that we serve.

Jayuan 佳远铜材





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EV Charging Solutions

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AC CHARGING PLUG

Model: ■ AG-GBAC-C32P-3 ■ AG-GBAC-C63P-3

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
 - Lmpact of external force: can afford 1m drop and 2t vehicle
 - run over pressure.
- Insertion and extraction force: <100N

Applied Materials

- Shell material: thermoplastics,flame retardant grade UL94-V0
- Pin: Copper alloy, silver + top of the thermoplastic

Rubber Color



Shell Color



Cable Color

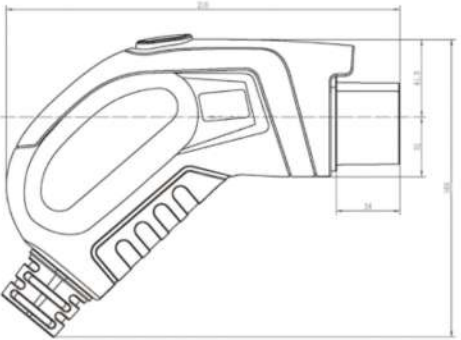
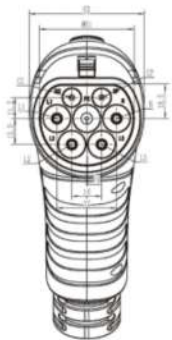


Environmental performance

- Operating temperature:-30℃~+50℃

Electrical Performance

- The rated current: 32A、 63A
- Operating voltage: 440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Have one or two PTC (PT1000) thermistor (can match with NTC or Temperature control switch) .
- 3) The head of pins using safety insulation design to prevent direct contact with the hand .
- 4) Excellent protection performance,prodection grade achieved IP55(working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors .
- 6) Reliable material , flame-retardant , pressure proof ,wear-resisting, impact resistance, advanced oil proof.

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-GBAC-C32P-3	32A/440V	5x6+4x0.75(P2)
AG-GBAC-C63P-3	63A/440V	5x16+4x0.75(P2)

AC CHARGING PLUG

Model: ■ AG-GBAC-Z32P-3 ■ AG-GBAC-Z63P-3

GB Product application : Charging pile

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure .

Applied Materials

- Shell material: thermoplastics,flame retardant grade UL94-V0
- Pin: Copper alloy, silver + top of the thermoplastic

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 32A、63A
- The rated voltage: 440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax

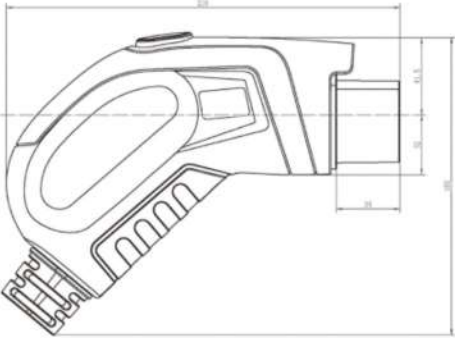
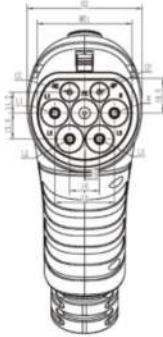
Rubber Color



Shell Color



Cable Color



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Have one or two PTC (PT1000) thermistor (can match with NTC or Temperature control switch) .
- 3) The head of pins using safety insulation design to prevent direct contact with the hand .
- 4) Excellent protection performance,protection grade achieved IP55(working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors .
- 6) Reliable material , flame - retardant , pressure proof ,wear - resisting , impact resistance , advanced oil proof.

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-GBAC-Z32P-3	32A/440V	F5x6+4x0.75(P2)
AG-GBAC-Z63P-3	63A/440V	F5x16+4x0.75(P2)

AC CHARGING PLUG

Model: ■ AG-GBAC-C10P ■ AG-GBAC-C16P ■ AG-GBAC-C16P-3 ■ AG-GBAC-C32P

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure .
- Insertion force: <100N

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-V0
- Pin: Copper alloy, silver plate and use thermoplastic at the top

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 10A、16A、32A
- The rated voltage: 250V/440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: < 50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax

Rubber Color



Shell Color



Cable Color



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Using riveting pressure process with none screw , have a beautiful appearance .Hand - held design conform to the ergonomic principle, easy plug.
- 3) The head of pins using safety insulation design to prevent direct contact with the hand .
- 4) Excellent protection performance,protection grade achieved IP55(working condition).
- 5) Applied double color coating technology, customize color.

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-GBAC-C10P	10A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-C16P	16A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-C16P-3	16A/440V	5X2.5mm²+2x0.75mm²
AG-GBAC-C32P	32A/250V	3X6mm²+2x0.75mm²

AC CHARGING PLUG

Model: ■ AG-GBAC-Z10P ■ AG-GBAC-Z16P ■ AG-GBAC-Z16P-3 ■ AG-GBAC-Z32P

GB Product application : Charging pile

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Applied Materials

Rubber Color

■ ■ ■ ■ ■ ■

Shell Color

■

Cable Color

■

• Shell material: thermoplastics, flame retardant grade UL94-V0

• Pin:Copper alloy, silver + top of the thermoplastic

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 10A、16A、32A、63A
- The rated voltage: 250V/440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: < 50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Using riveting pressure process with none screw and beautiful apprearance .Hand - held design conform to the ergonomic principle, easy plug.
- 3) The head of pins using safety insulation design to prevent direct contact with the hand .
- 4) Excellent protection performance, protection grade achieved IP55(working condition).
- 5) Applied double color coating technology with customization color.

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-GBAC-Z10P	10A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-Z16P	16A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-Z16P-3	16A/440V	5X2.5mm²+2x0.75mm²
AG-GBAC-Z32P	32A/250V	3X6mm²+2x0.75mm²

AC CHARGING PLUG

Model: ■ AG-GBAC-C10P ■ AG-GBAC-C16P ■ AG-GBAC-C16P-3 ■ AG-GBAC-C32P

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Applied Materials

Rubber Color

■ ■ ■ ■ ■ ■

Shell Color

■

Cable Color

■

• Shell material: thermoplastics, flame retardant grade UL94-V0

• Pin: Copper alloy, silver + top of the thermoplastic

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 10A、16A、32A、63A
- The rated voltage: 250V/440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Using riveting pressure process with none screw , have a beautiful apprearance .Hand - held design conform to the ergonomic principle , plug conveniently.
- 3) The head of pins using safety insulation design to prevent direct contact with the hand.
- 4) Excellent protection performance,prodection grade achieved IP55(working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors .

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-GBAC-C10P	10A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-C16P	16A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-C16P-3	16A/440V	5X2.5mm²+2x0.75mm²
AG-GBAC-C32P	32A/250V	3X6mm²+2x0.75mm²

AC CHARGING PLUG

Model: ■ AG-GBAC-Z10P ■ AG-GBAC-Z16P ■ AG-GBAC-Z16P-3 ■ AG-GBAC-Z32P

GB Product application : Charging pile

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-V0
- Pin: Copper alloy, silver + top of the thermoplastic

Rubber Color



Shell Color



Cable Color



Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 10A、16A、32A
- The rated voltage: 250V/440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Using riveting pressure process with none screw , have a beautiful appearance. Hand-held design conform to the ergonomic principle, easy plug.
- 3) The head of pins using safety insulation design to prevent direct contact with the hand .
- 4) Excellent protection performance,protection grade achieved IP55(working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors.

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-GBAC-Z10P	10A/250V	3X2.5mm ² +2x0.75mm ²
AG-GBAC-Z16P	16A/250V	3X2.5mm ² +2x0.75mm ²
AG-GBAC-Z16P-3	16A/440V	5X2.5mm ² +2x0.75mm ²
AG-GBAC-Z32P	32A/250V	3X6mm ² +2x0.75mm ²

AC CHARGING SOCKET

Model: ■ AG-GBAC-C10S ■ AG-GBAC-C16S ■ AG-GBAC-C16S-3

■ AG-GBAC-C32S ■ AG-GBAC-C32S-3 ■ AG-GBAC-C63S-3

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Insertion force: <100N

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-V0
- Contact - tube: Copper alloy, silver-plated

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 10A、16A、32A、63A
- The rated voltage: 250V/440V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Have a electromagnetic locking device (can match with hela lock) ,have functions of signal feedback.
- 3) Have one or two PTC (PT1000) thermistor (can match with hela lock) ,have functions of signal feedback.
- 4) Beautiful appearance , prevention cap can be installed on the left side, the right side or the front of it.
- 5) Reliable material ,flame retardant, pressure proof , wear - resisting , impact resistance, high oil proof .
- 6) Excellent protection performance, protection grade achieved IP55(working condition).

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications	Note
AG-GBAC-C10S	10A/250V	H07BZ5-F3X2.5mm ² +2x0.75mm ²	The wire length a end of treatment are according to the customer requirement.
AG-GBAC-C16S	16A/250V	H07BZ5-F3X2.5mm ² +2x0.75mm ²	
AG-GBAC-C16S-3	16A/440V	H07BZ5-F5X2.5mm ² +2x0.75mm ²	
AG-GBAC-C32S	32A/250V	H07BZ5-F3X6mm ² +2x0.75mm ²	
AG-GBAC-C32S-3	32A/440V	H07BZ5-F5X6mm ² +2x0.75mm ²	
AG-GBAC-C63S-3	63A/440V	H07BZ5-F5X16mm ² +2x0.75mm ²	

AC CHARGING SOCKET

Model: ■ AG-GBAC-Z10S ■ AG-GBAC-Z16S ■ AG-GBAC-Z16S-3
■ AG-GBAC-Z32S ■ AG-GBAC-Z32S-3 ■ AG-GBAC-Z63S-3

GB Product application : Charging pile

Mechanical properties

- Mechanical life: no-load plug>10000times
- Insertion force: <100N

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-0
- Contact - tube: Copper alloy, silver plated

Environmental performance

- Operating temperature: $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Electrical Performance

- The rated current: 10A、16A、32A、63A
- The rated voltage: 250V/440V
- Insulation resistance: > 1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Have a electromagnetic locking device (can match with hela lock) ,have functions of signal feedback.
- 3) Have one or two PTC (PT1000) thermistor (can match with hela lock) ,have functions of signal feedback.
- 4) Beautiful appearance , prevention cap can be installed on the left side, the right side or the front of it.
- 5) Reliable material ,flame retardant, presssure proof , wear - resisting , impact resistance, high oil proof .
- 6) Excellent protection performance, prodection grade achieved IP55 (working condition).

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications	Note
AG-GBAC-Z10S	10A/250V	H07BZ5-F3X2.5mm ² +2x0.75mm ²	The wire length a end of treatment are according to the customer requirement.
AG-GBAC-Z16S	16A/250V	H07BZ5-F3X2.5mm ² +2x0.75mm ²	
AG-GBAC-Z16S-3	16A/440V	H07BZ5-F5X2.5mm ² +2x0.75mm ²	
AG-GBAC-Z32S	32A/250V	H07BZ5-F3X6mm ² +2x0.75mm ²	
AG-GBAC-Z32S-3	32A/440V	H07BZ5-F5X6mm ² +2x0.75mm ²	
AG-GBAC-Z63S-3	63A/440V	H07BZ5-F5X16mm ² +2x0.75mm ²	

DC CHARGING PLUG

Model: ■ AG-GBDC-C80P ■ AG-GBDC-C125P ■ AG-GBDC-C200P ■ AG-GBDC-C250P

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-V0.
- Pin: Copper alloy, silver + top of the thermoplastic

Environmental performance

- Operating temperature: $-30^{\circ}\text{C} \sim +50^{\circ}\text{C}$

Electrical Performance

- The rated current: 80A、125A、200A、250A
- The rated voltage: 750V/1000V
- Insulation resistance: >2000MΩ(DC1000V)
- Pins temperature rise: <50K
- Withstand voltage: 4500V(DC+/DC-/PE)
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.2-2015.
- 2) Have a electromagnetic locking device , have functions of signal feedback .
- 3) Have one or two PTC (PT1000) thermistor (can match with NTC or Temperature control switch) .
- 4) The head of pins using safety insulation design to prevent direct contact with the hand
- 5) Excellent protection performance,protection grade achieved IP55(working condition).
- 6) Applied double color coating technology ,personalized custom a variety of colors .

Product Specification and Cable Standard

Product Type	Rated Current	Cable Specifications
AG-GBDC-C80P	80A	2x20+1x25+2x4+2x(2x0.75)(P2)+8x0.75
AG-GBDC-C125P	125A	2x35+1x25+2x4+2x(2x0.75)(P2)+8x0.75
AG-GBDC-C200P	200A	2x70+1x25+2x4+2x(2x0.75)(P2)+8x0.75
AG-GBDC-C250P	250A	2x80+1x25+2x4+2x(2x0.75)(P2)+8x0.75

DC CHARGING PLUG

Model: ■ AG-GBDC-C80P (32A/40A)

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Applied Materials

- Shell material: thermoplastics,flame retardant grade UL94-V0
- Pin: Copper alloy , silver + top of the thermoplastic

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current: 32A、40A
- The rated voltage: 750V
- Insulation resistance: >2000MΩ(DC1000V)
- Pins temperature rise: <50K
- Withstand voltage: 4500V (DC+/DC-/PE)
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.3-2015.
- 2) Have a electromagnetic locking device , have functions of signal feedback .
- 3) Have one or two PTC (PT1000) thermistor (can match with NTC or Temperature control switch) .
- 4) The head of pins using safety insulation design to prevent direct contact with the hand .
- 5) Excellent protection performance,protection grade achieved IP55 (working condition).
- 6) Developed for portable DC charging pile ,beautiful appearance with hand - held design andsmall in volume make installation easily, insertion and withdrawal conveniently .

Product Specification and Cable Standard

Product Type	Rated Current	Cable Specifications
AG-GBDC-C32P	32A	3x6+2x4+4x0.75(P2)+6x0.75
AG-GBDC-C40P	40A	3x10+2x4+4x0.75(P2)+6x0.75

DC CHARGING SOCKET

Model: ■ AG-GBDC-C80S ■ AG-GBDC-C125S ■ AG-GBDC-C200S-3 ■ AG-GBDC-C250S

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Insertion force: <140N

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-0
- Contact-tube: Copper alloy, silver-plated

Environmental performance

- Operating temperature: -30℃~+50℃

Electrical Performance

- The rated current:80A、125A、200A、250A
- The rated voltage: 750V/1000V
- Insulation resistance: >2000MΩ(DC1000V)
- Pins temperature rise: <50K
- Withstand voltage: 4500V (DC+/DC-/PE)
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of <Connection set for conductive charging of electric vehicles> GB/ T 20234.3-2015.
- 2) Have one or two PTC (PT1000) thermistor (can match with hela lock) ,have functions of signal feedback.
- 3) Beautiful appearance , prevention cap can be installed on the left side, the right side or the front of it.
- 4) Reliable material ,flame retardant, pressure proof , wear - resisting , impact resistance, high oil proof .
- 5) Excellent protection performance, protection grade achieved IP55 (working condition).

Product Specification and Cable Standard

Product Type	Rated Current	Cable Specifications	Note
AG-GBDC-C80S	80A	H07BZ5-F2X20mm²+1x25mm²+2x4mm²+8x0.75mm²	Wire length and tail end treatment according to customer configuration.
AG-GBDC-C125S	125A	H07BZ5-F2X35mm²+1x25mm²+2x4mm²+8x0.75mm²	
AG-GBDC-C200S	200A	H07BZ5-F2X70mm²+1x25mm²+2x4mm²+8x0.75mm²	
AG-GBDC-C250S	250A	H07BZ5-F2X80mm²+1x25mm²+2x4mm²+8x0.75mm²	

AC CHARGING PLUG

Model: ■ AG-IEC 2-IIe-16P ■ AG-IEC 2-IIe-16P-3 ■ AG-IEC 2-IIe-20P ■ AG-IEC 2-IIe-32P

IEC Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug >10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.
- Insertion force: <100N

Applied Materials

- Shell material: thermoplastic, flame retardant grade UL94-V0
- Contact- tube: Copper alloy, silver-plated

Environmental performance

- Operating temperature:-30℃~+50℃

Electrical Performance

- The rated current: 16A、20A、32A
- The rated voltage: 250V/480V
- Insulation resistance: >1000MΩ (DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of IEC 62196-2-2016 2-IIe.
- 2) Using riveting pressure process with none screw , have a beautiful appearance .Hand - held design conform to the ergonomic principle , plug conveniently.
- 3) XLPO for cable insulation prolonging the aging resistance life - span , TPU shenth improved the bending life and wear resistance of cable.
- 4) Excellent protection performance,protection grade achieved IP55(working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors.

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-IEC 2-IIe-16P	16A/250V	H07BZ5-F3X2.5mm ² +2x0.5mm ²
AG-IEC 2-IIe-16P-3	16A/480V	H07BZ5-F5X2.5mm ² +2x0.5mm ²
AG-IEC 2-IIe-32P	32A/250V	H07BZ5-F3X6mm ² +2x0.5mm ²
AG-IEC 2-IIe-32P-3	32A/480V	H07BZ5-F5X6mm ² +2x0.5mm ²

AC CHARGING PLUG

Model: ■ AG-IEC 2-IIb-16P ■ AG-IEC 2-IIb-16P-3 ■ AG-IEC 2-IIb-20P ■ AG-IEC 2-IIb-32P

IEC Product application : Charging Pile

Mechanical properties

- Mechanical life: no-load plug >10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.
- Insertion force : <100N

Applied Materials

- Shell material: thermoplastic, flame retardant grade UL94-V0
- Pin: Copper alloy, silver + top of the thermoplastic

Environmental performance

- Operating temperature:-30℃~+50℃

Electrical Performance

- The rated current: 16A、20A、32A
- The rated voltage: 250V/480V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of IEC 62196-2-2016 2-IIb.
- 2) Using riveting pressure process with none screw , have a beautiful appearance .Hand - held design conform to the ergonomic principle , plug conveniently.
- 3) XLPO for cable insulation prolonging the aging resistance life - span , TPU shenth improved the bending life and wear resistance of cable.
- 4) Excellent protection performance,protection grade achieved IP55(working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors .

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-IEC 2-IIb-16P	16A/250V	H07BZ5-F3X2.5mm ² +2x0.5mm ²
AG-IEC 2-IIb-16P-3	16A/480V	H07BZ5-F5X2.5mm ² +2x0.5mm ²
AG-IEC 2-IIb-32P	32A/250V	H07BZ5-F3X6mm ² +2x0.5mm ²
AG-IEC 2-IIb-32P-3	32A/480V	H07BZ5-F5X6mm ² +2x0.5mm ²

AC CHARGING SOCKET

Model: ■ AG-IEC2-IIa-16S ■ AG-IEC2-IIa-32S ■ AG-IEC2-IIa-16S-3 ■ AG-IEC2-IIa-32S-3

IEC Product application : Charging pile

Mechanical properties

- Mechanical life: no-load plug >10000times
- Insertion force: <100N

Applied Materials

- Shell material: thermoplastics,flame retardant grade UL94V-0
- Contact-tube: Copper alloy, silver plated
- Seal: Rubber, Silicone

Environmental performance

- Operating temperature: -30℃~+50℃
- Waterproof rate: IP55

Electrical Performance

- The rated current: 16A、32A、40A
- The rated voltage: 250V/440V
- Insulation resistance: >1000MΩ (DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of IEC62196-2 2016.
- 2) Match with Hela locking device.
- 3) Have one or two PTC(PT1000) thermistor (can match with NTC or Temperature control switch).
- 4) Beautiful appearance,prevention cap can be installed on the left side,the right side or the front of it.
- 5) Reliable material ,flame retardant, pressure proof, wear-resisting, impact resistance, high oil proof.
- 6) Excellent protection performance, protection grade achieved IP55 (working condition).

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications	Colour
AG-IEC2-IIa-16S	16A/250V	3X2.5mm ² +2x0.5mm ²	The wire length a end of treatment are according to the customer requirement.
AG-IEC2-IIa-32S	32A/250V	3X6mm ² +2x0.5mm ²	
AG-IEC2-IIa-16S-3	16A/480V	5X2.5mm ² +2x0.5mm ²	
AG-IEC2-IIa-32S-3	32A/480V	5X6mm ² +2x0.5mm ²	

AC CHARGING PLUG

Model: ■ AG-SAEAC-I-16P ■ AG-SAEAC-I-20P ■ AG-SAEAC-I-32P

SAE Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug >10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.
- Insertion force: <100N

Applied Materials

- Shell material: thermoplastic , flame retardant grade UL94-V0
- Contact-tube: Copper alloy , silver plated

Environmental performance

- Operating temperature: -30℃~+50℃
- Waterproof rate: IP55

Electrical Performance

- The rated current: 16A、20A、32A
- The rated voltage: 120V/250V
- Insulation resistance: >1000MΩ (DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax



Features

- 1) Conform to the provisions and requirements of SAE J1772-2012, IEC 621962-2016 2-I.
- 2) Using riveting pressure process with none screw , have a beautiful appearance .Hand - held design conform to the ergonomic principle , plug conveniently.
- 3) XLPO for cable insulation prolonging the aging resistance life - span , TPU shenth improved the bending life and wear resistance of cable.
- 4) Excellent protection performance,prodection grade achieved IP55 (working condition).
- 5) Applied double color coating technology ,personalized custom a variety of colors .

Product Specification and Cable Standard

Product Type	Rated Current/ Voltage	Cable Specifications
AG-SAEAC-I-16P	16A/120V	H07BZ5-F3X2.5mm ² +2x0.5mm ²
AG-SAEAC-I-16P	16A/250V	H07BZ5-F3X2.5mm ² +2x0.5mm ²
AG-SAEAC-I-20P	20A/250V	H07BZ5-F3X2.5mm ² +2x0.5mm ²
AG-SAEAC-I-32P	32A/250V	H07BZ5-F3X6mm ² +2x0.5mm ²

CHARGING MODE 2

Model: ■ AG-IEC2-Ile-16P-IC-CPD

IEC Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A
- The rated voltage: 110V/250V AC
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Duty cycle: 21.67%

Rubber Color



Shell Color



Cable Color



Environmental performance

- Operating temperature: -30℃~+50℃

Applied Materials

- Shell Material: thermoplastics , flame retardant grade UL94-V0

The Function of IC-CPD

- Over-voltage , under-voltage protection
- Over-current protection
- Earth leakage protection
- Ground protection: continuous monitoring grounding protection
- Over-temperature protection: break the circuit when the temperature is over 85℃ with continuous 3S

Features

- 1) Conform to the provisions and requirements of IEC 62196-2.
- 2) Using riveting pressure process with none screw , have a beautiful appearance.Hand-held design conform to the ergonomic principle , plug conveniently.
- 3) The control box panel adopts display function , the current and voltage , the charging state and the temperature of the circuit board in real time.
- 4) Excellent protection performance, protection grade of IC-CPD achieved IP66 and achieved IP55 of plug (working condition) High security.
- 5) Applied double color coating technology , custom color.
- 6) Switchable currents , Customers can choose an appropriate charging current according to the demand.
- 7) Containing the intelligent chip. It can automatically repair minor charging problems while charging.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-IEC2-Ile-16p-IC-CPD	16A/250V	H07BZ5-F3X2.5mm²+2x0.5mm²

CHARGING MODE 2

Model: ■ AG -IC-CPD-13A ■ AG -IC-CPD-16A

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Lmpact of external force: can afford 1m drop and 2t vehicle run over pressure.
- Insertion force: <100N

Electrical Performance

- The rated current: 13A、 16A
- The rated voltage: 220V
- Insulation resistance: >1000MΩ(DC500V)
- Withstand voltage: 2500V
- duty cycle: 21.67%

Rubber Color



Shell Color



Cable Color



Environmental performance

- Operating temperature: -30℃~+50℃

Applied Materials

- Shell material: thermoplastics , flame retardant grade UL94-V0

the function of IC-CPD

- Over-voltage , under-voltage protection
- Over-current protection
- Earth leakage protection
- Ground protection: continuous monitoring grounding protection
- Lightning protection
- Over-temperature protection: break the circuit when temperature is over 85℃ and continuous

Features

- 1) Conform to the provisions and requirements of GB/T20234.2-2015 , GB/T 18487.1-2015.
- 2) Using riveting pressure process with none screw with beautiful appearance.Hand-held design conform to ergonomic principle , plug conveniently.
- 3) The control box layout USES the display screen function to display the current voltage , charging status and circuit board temperature in real time.
- 4) Special internal waterproof protection performance , protection grade of IC -CPD achieved IP66and achieved IP55 of plug(working condition) .
- 5)Adopted double color coating technology , custom color accepted.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG -IC-CPD-13A	13A/220V	3X2.5mm²+2x0.75mm²
AG -IC-CPD-16A	16A/220V	3X2.5mm²+2x0.75mm²

CHARGING MODE 2

Model: ■ AG-SAEAC-I-16P-IC-CPD

SAE Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.
- Insertion force:<100N

Electrical Performance

- The rated current: 13A、16A
- The rated voltage: 110V/220V/250V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2500V
- Contact impedance: 0.5mΩMax

Applied Materials

- Shell material: thermoplastics, flame retardant grade UL94-V0

Rubber Color



Shell Color



Cable Color



Features

- 1) Conform to the provisions and requirements of SAE J1772-2012.
- 2) Using riveting pressure process with none screw with beautiful appearance. Hand-held design conform to ergonomic principle, plug conveniently.
- 3) The control box can be adjusted to fixed 10A/13A/16A.
- 4) XLPO for cable insulation prolonging the aging resistance life-span. TPU sheath improves the bending life and wear resistance of cable.
- 5) Special internal waterproof protection performance, protection grade achieved IP55(working condition).
- 6) Adopted double color coating technology, custom color accepted.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-SAEAC-I-16P-IC-CPD	16A/250V	H07BZ5-F3X2.5mm ² +2x0.5mm ²

CHARGING MODE 3

Model: ■ GB-GB

GB Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A、32A
- The rated voltage: 250V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax

Applied Materials

- Shell Material: thermoplastics, flame retardant grade UL94-V0
- Pin: Copper alloy, silver+top of the thermoplastic

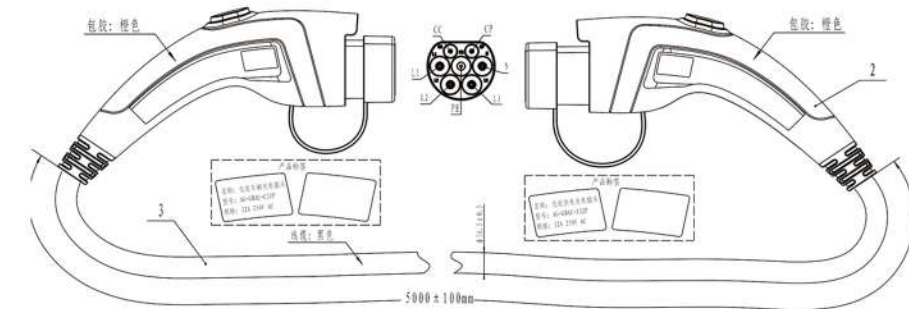
Rubber Color



Shell Color



Cable Color



Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of GB/T 20234.2-2015.
- 2) Product assembly meet GB/T 20234.2-2011 Charging Mode3 connection method B.
- 3) Using riveting pressure process with none screw, have a beautiful appearance. Hand-held design conform to the ergonomic principle, plug conveniently.
- 4) Nice appearance, hand design to prevent accidental direct contact with staff.
- 5) Excellent protection performance, protection grade achieved IP55 of plug(working condition) High security.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-GBAC-CZ16P	16A/250V	3X2.5mm ² +2x0.75mm ²
AG-GBAC-CZ32P	32A/250V	3X6mm ² +2x0.75mm ²

CHARGING MODE 3

Model: ■ TYPE2-GB

IEC Product application : Electric vehicle
GB

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A、32A
- The rated voltage: 250V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax

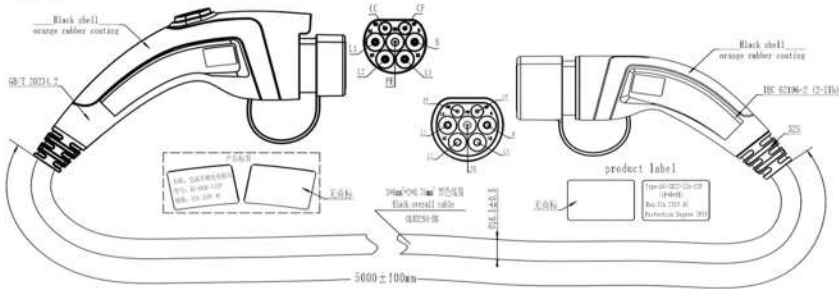
Rubber Color



Shell Color



Cable Color



Applied Materials

- Shell Material: thermoplastics,flame retardant grade UL94-V0
- Pin: Copper alloy,silver+top of the thermoplastic

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of GB/T 20234.2-2015 & 62196-2 IEC 2010 SHEET 2-IIe.
- 2) Product assembly meet GB/T 20234.2-2011 Charging Mode3 connection method B2.
- 3) Using riveting pressure process with none screw , have a beautiful appearance.Hand-held design conform to the ergonomic principle,plug conveniently.
- 4) Nice appearance , hand design to prevent accidental direct contact with hands.
- 5) Excellent protection performance , protection grade achieved IP55 of plug(working condition)High security.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-GBAC-CZ16P	16A/250V	3X2.5mm²+2x0.75mm²
AG-GBAC-CZ32P	32A/250V	3X6mm²+2x0.75mm²

CHARGING MODE 3

Model: ■ TYPE2-TYPE2

IEC Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A、32A
- The rated voltage: 250V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax

Rubber Color



Shell Color



Cable Color



Applied Materials

- Shell Material: thermoplastics , flame retardant grade UL94-V0
- Pin: Copper alloy , silver-plate

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of 62196-2 IEC 2010 SHEET 2-IIe.
- 2) Product assembly conforms to IEC 61851-1-2010 charging mode 3 connection mode B2.
- 3) Adopt no screw riveting pressing process, beautiful appearance. Hand-held design in line with ergonomic principles , convenient plug.
- 4) Reliable materials , flame retardant , pressure resistance , abrasion resistance , impact resistance and oil resistance.
- 5) Excellent protection performance , IP55 protection level of the plug (working state) high security.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-IEC2-IIb/e-16P	16A/250V	H07BZ5-F3X2.5mm²+2x0.5mm²
AG-IEC2-IIb/e-32P	32A/250V	H07BZ5-F3X6mm²+2x0.5mm²
AG-IEC2-IIb/e-16P-3	16A/480V	H07BZ5-F5X2.5mm²+2x0.5mm²
AG-IEC2-IIb/e-32P-3	32A/480V	H07BZ5-F5X6mm²+2x0.5mm²

CHARGING MODE 3

Model: TYPE2-TYPE1

IEC Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A、32A
- The rated voltage: 250V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax

Rubber Color



Shell Color



Cable Color



Applied Materials

- Shell Material: thermoplastics , flame retardant grade UL94-V0
- Pin: Copper alloy , silver

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of 62196-2 IEC 2010 SHEET 2-Ile and SAE J1772 2010.
- 2) Product assembly conforms to IEC 61851-1-2010 charging mode 3 connection mode B2.
- 3) Adopt no screw riveting pressing process, beautiful appearance. Hand-held design in line with ergonomic principles , convenient plug.
- 4) Reliable materials , flame retardant , pressure resistance , abrasion resistance , impact resistance and oil resistance.
- 5) Excellent protection performance , IP65 protection level of the plug (working state) high security.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-IEC2-IIb/I-16P	16A/250V	H07BZ5-F3X2.5mm²+2x0.5mm²
AG-IEC2-IIb/I-32P	32A/250V	H07BZ5-F3X6mm²+2x0.5mm²

CHARGING MODE 3

Model: TYPE2-TYPE2-SPIRAL

IEC Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Lmpact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A、32A
- The rated voltage: 250V/415V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax

Rubber Color



Shell Color



Cable Color



Applied Materials

- Shell Material: thermoplastics,flame retardant grade UL94-V0
- Pin: Copper alloy,silver

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of 62196-2 IEC 2010 SHEET 2-Ile.
- 2) The product assembly conforms to IEC 61851-1 2010 charging mode 3 connection mode B2.
- 3) Adopt no screw riveting pressure process , beautiful appearance. Hand - held design conforms to the principle of ergonomics , convenient plug and pull.
- 4) Reliable materials, flame retardant , pressure resistance, abrasion resistance, impact resistance, high oil resistance.
- 5) Excellent protection performance , IP55 protection level of the plug (working state) high security.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-IEC2-IIb/e-16P	16A/250V	H07BZ5-F3X2.5mm²+2x0.5mm²
AG-IEC2-IIb/e-32P	32A/250V	H07BZ5-F3X6mm²+2x0.5mm²
AG-IEC2-IIb/e-16P-3	16A/480V	H07BZ5-F5X2.5mm²+2x0.5mm²
AG-IEC2-IIb/e-32P-3	32A/480V	H07BZ5-F5X6mm²+2x0.5mm²

CHARGING MODE 3

Model: TYPE2-TYPE1-ADAPTOR

IEC Product application : Electric vehicle

Mechanical properties

- Mechanical life: no-load plug>10000times
- Impact of external force: can afford 1m drop and 2t vehicle run over pressure.

Electrical Performance

- The rated current: 16A、 32A
- The rated voltage: 250V/415V
- Insulation resistance: >1000MΩ(DC500V)
- Pins temperature rise: <50K
- Withstand voltage: 2000V
- Contact impedance: 0.5mΩMax

Rubber Color



Shell Color



Cable Color



Applied Materials

- Shell Material: thermoplastics,flame retardant grade UL94-V0
- Pin: Copper alloy,silver

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of 62196-2 IEC 2010 SHEET 2-Ile.
- 2) The product assembly conforms to IEC 61851-1 2010 charging mode 3 connection mode B2.
- 3) Adopt no screw riveting pressure process , beautiful appearance. Hand - held design conforms to the principle of ergonomics , convenient plug and pull.
- 4) Reliable materials, flame retardant , pressure resistance, abrasion resistance, impact resistance, high oil resistance.
- 5) Excellent protection performance , IP65 protection level of the plug (working state) high security.

Product Specification and Cable Standard

Product Type	Rated Current/ voltage	Cable Specifications
AG-IEC2-IIb/e-16P	16A/250V	H07BZ5-F3X2.5mm²+2x0.5mm²
AG-IEC2-IIb/e-32P	32A/250V	H07BZ5-F3X6mm²+2x0.5mm²

Mechanical properties

- Mechanical life:≥50000 (DC12V POW-ER-ON 0.05s,power-off 10s)
- Thrust: ≥450g(Energized DC 12V)
- Retentivity: ≥700g

Electrical Performance

- The rated current: 3A
- The rated voltage: 12V±5%
- Activation time: ≥0.05s
- Power-on sustaining: 0.2s Max
- Insulation resistance: >50MΩ(DC500V)
- Temperature rise:≤50℃ (power-on 0.05s,power-off 10s)
- Withstand voltage: DC1000V 50/60Hz 30s

Applied Materials

- Shell material: thermoplastics,flame retardant grade UL94-V0

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of GB/T18487.1-2015 .
- 2) Electromagnetic pulse control is adopted , also can add control board to achieve a long power supply mode.
- 3) Use ultrasonic welding process , with small size and beautiful appearance.
- 4) Have signal feedback function and manual emergency unlocking function.
- 5) Excellent protection performance, prodection grade achieved IP66 (working condition).
- 6) Reliable material ,flame retardant, pressure proof , wear - resisting , impact resistance, high oil proof.

Electronic Lock

Model: AC-Z-EL

GB Product application : Prevent charging plug release accidentally



Electronic Lock

Model: ■ AC-C-EL

GB Product application : Prevent charging plug release accidentally

Mechanical properties

- Mechanical life: ≥50000 (DC12V POW-ER-ON 0.05s,power-off 10s)
- Thrust: ≥450g(Energized DC 12V)
- Retentivity: ≥700g

Electrical Performance

- The rated current: 3A
- The rated voltage: 12V±5%
- Activation time : ≥0.05s
- Power-on sustaining: 0.2s Max
- Insulation resistance: >50MΩ(DC500V)
- Temperature rise: ≤50℃(power-on 0.05s,power-off 10s)
- Withstand voltage: DC1000V 50/60Hz 30s

Applied Materials

- Shell material: thermoplastics , flame retardant grade UL94-V0

Environmental performance

- Operating temperature: -30℃~+50℃

Features

- 1) Conform to the provisions and requirements of GB/T18487.1-2015 .
- 2) Electromagnetic pulse control is adopted , also can add control board to achieve a long power supply mode.
- 3) Use ultrasonic welding process , with small size and beautiful appearance.
- 4) Have signal feedback function and manual emergency unlocking function.
- 5) Special internal waterproof protection performance , protection grade achieved IP66.
- 6) Reliable material, flame retardant, pressure resistance, abrasion resistance, impact resistance and high oil resistance.



GB GB DC Fixed Socket



GB GB AC Fixed Socket



IEC TYPE 1 AC Fixed Socket



SAE TYPE 2 AC Fixed Socket

Plug dummy socket

Product application : Fixed socket for EV charging connector