FUTURE MOBILITY

E-Charger - KW1C, KW02C, KW04

JAE has been designing EV charging solutions since 2010, and it has released multiple connectors that meet CHAdeMO and CCS Type-2 standards. The new KW1C and KW02C Series EV Charging connectors with smaller and lighter design, are with enhanced high current ratings. Both KW1C and KW02C Series connectors comply with CHAdeMO specification with internal enhancements. In addition, the KW04 series fast charging connectors conform to the CCS Type-2 standard, and it has been designed with an enhanced internal structure to reduce maintenance costs of public chargers, that have been widely deployed recently.

Key Features (KW1C, KW02C)

- Light, compact plastic body with enough robustness
- User Friendly
  - Just Plug in w/o any button operation
  - One button action for unlocking
  - Ergonomic grip design
- High Reliability
  - Stainless steel used in Latch
  - High weather resistance in Resin part
  - Block foreign material around release button
  - Inside parts switch LED are water/dust proof (KW1C)
- Emergency release/removal and recovery are possible
- Alcohol-resistant for antibacterial cleaning

Key Features (KW04)

- DOUBLE INSULATION
  - Enclosure (outer and inner insulation) to protect the power contacts
  - Housing (inner insulation) for waterproofness
- HIGH RELIABILITY
  - High reliability for outdoor use
  - Excellent UV-light and weather resistance according to UL746C f1
  - Only use of robust and high-quality materials
  - Temperature sensors fixed to the power terminals
- USER FRIENDLY
  - Easy to maintain
  - Effortless insertion and removal
  - Comfortable handling thanks to Ergonomic grip design

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Specs	KW1C	KW02C	KW04
Rated Current	Maximum power supply 150A*	Maximum Power Supply 37A*	150A & 200A/1000 VDC (Power Supply)
Rated Voltage	500 VDC Power Supply	500VDC Power Supply	1000 VDC (Power Supply)
Power Pin	2-pole	2-pole	2-pole + PE
Signal Pin	8-pole (corresponding to pin 3)	8-pole (corresponding to pin 3)	2-pole
Durability	10,000 Times or more	10,000 Times or more	10,000 Times or more
Safety Mechanism	Electromagnetic Lock, Latch Postion Monitoring function	Fuse, Electromagnetic Lock (self-holding solenoid), Latch and Solenoid Postion Monitoring	Double insulated structure with built-in temperature sensor
CE Certification	TÜV Rheinland	TÜV Rheinland	TÜV Rheinland

*Rated Current is subject to change depending on the operational temperature.

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Key Applications (KW1C, KW02C)

- Emergency release/removal and recovery capabilities
- Weather resistant plastic body with durable design (IEC62196-1/3)
- IP56 (while mated)
- Water/dust proof internal components (equivalent to IP67)
- Thanks to V2X capabilities, the Electric Vehicle Power Supply (EVPS) can continue to operate as a portable charger, even during a power outage

Key Applications (KW04)

- Innovative detachable interface for easy replacement
- Double insulation structure for more safety
- Extremely powerful, robust and user-friendly design