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www.fox-ess.com

# SECOND GENERATION EV CHARGER

The AC EV charger is a new product launched by Fox ESS . Its appearance of this product adopts a streamlined and simple design, which is more refined and glitzy. Through the App, car owners can choose the Bluetooth smart lock, timing charging function, or change it to plug and play mode. At the same time, it can monitor charging information, set EV charger parameters, bind equipment and authorization, and upgrade remote software.





Innovativeness Design

Streamline design



#### **Intelligent Control**

Wireless communication (WiFi/Bluetooth) OCPP communication protocol with the backend Smart charge or scheduled charge by App



#### **Energy Saving**

Standby power consumption is less than 7W, excellent energy-saving efficiency



#### **Flexible Option**

Type 2 Plug or Type 2 socket App operation or plug and play Wall-mounted or floor-stand installation



#### **Secure and Safe**

6mA DC residual current protection Anti-welding protection IP55 rated

Power: 22kW

Output Current: Max.32A

Output Voltage: 400V AC

Type 2 cable charging connector

Compliant with OCPP 1.6 (JSON)/2.0

 App operation or RFID authentication or plug, play & 4G

Protection Grade: IP55

-30 ~ 50°C wide Operating Temperature

Warranty time: 3 years



For more about the Fox ESS EV charger Please visit:

WWW.FOX-ESS.COM









## SECOND GENERATION 22KW EV CHARGER

### TECHNICAL SPECIFICATIONS



Wiring Scheme   39+N+PE	MODEL	A022KP1-E-2	A022KS1-E-2
Wiring Scheme	ТҮРЕ	CHARGING PLUG	CHARGING SOCKET
Voltage         400Vac, ±20%           Maximum Current         32A           Frequency         50/60Hz           OUTPUT         Voltage           Voltage         400Vac, ±20%           Maximum Current         32A           Rated Power         22kW           USER INTERFACE & CONTROIL           Connector Type         Type 2 cable         Type 2 socket(with Shutter)           WIFI Deader           Kitart Mode         Plug&Play/RFID card/App           COMMUNICATION           WIFI, Bluetooth         Yes           4G         Optional           OCPP         OCPP 1.6 JSON, OCPP 2.0 optional           ENVIRONMENT           Installation         Wall-mount / Post-mount           Operating Temperature         -30°C ~ 50°C           Operating Humidity         5% ~ 95% No condensation           Operating Altitude         ±2000m           DIMENSION AND WEIGHT           Product Dimension         320*190*130 mm         320*190*144.5 mm           Product Weight         3.55kg         2.0kg           SAFETY           IP protection rating         INCR           IK protection rating	INPUT		
Maximum Current         32A           Frequency         \$0/60Hz           OUTPOUT         ************************************	Wiring Scheme	3P+N+PE	
Frequency SO/60Hz OUTPUT Voltage 400Vac, ±20% Maximum Current 32A Rated Power 22kW USER INTERFACE & CONTROL Connector Type Type 2 cable Type 2 socket(with Shutter) RFID Reader Mifare ISO/IEC 14443 A Start Mode Plug&Play/RFID card/App COMMUNICATION WIFI, Bluetooth Yes 4G Optional OCPP OCPP 1.6 JSON, OCPP 2.0 optional ENVIRONMENT Installation Wall-mount / Post-mount Operating Temperature -30°C ~ 50°C Operating Humidity S% ~ 95% No condensation Operating Allitude \$2000m DIMENSION AND WEIGHT Product Dimension 320*190*130 mm 320*190*144.5 mm Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IP55 IK protection rating IP55 IK protection rating IR08 Residual Current Detection Over/Under voltage protection, Ground protection, Surge protection, EMC Class B	Voltage	400Vac, ±20%	
OUTPUT       Voltage     400Vac, ±20%       Maximum Current     32A       Rated Power     22kW       USER INTERFACE & CONTROL     Connector Type     Type 2 cable     Type 2 socket(with Shutter)       RFID Reader     Mifare ISO/IEC 14443 A       Start Mode     Plug&Play/RFID card/App       COMMUNICATION       WIFI, Bluetooth     Yes       4G     Optional       OCPP     OCPP 1.6 JSON, OCPP 2.0 optional       ENVIRONMENT       Installation     Wall-mount / Post-mount       Operating Temperature       - 30°C ~ 50°C       Operating Humidity     5% ~ 95% No condensation       Operating Altitude       > 2000m       DIMENSION AND WEIGHT       Product Dimension     320*190*130 mm     320*190*144.5 mm       Product Weight     3.55kg     2.0kg       SAFETY       IP protection rating     IKO8       Residual Current Detection     AC 30mA/DC 6mA       Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection, Poeter temperature prote	Maximum Current	32A	
Woltage 400Vac, ±20%  Maximum Current 32A Rated Power 22kW  USER INTERFACE & CONTROL  Connector Type Type 2 cable Type 2 socket(with Shutter)  RFID Reader Mifare ISO/IEC 14443 A Start Mode Plug&PlayRFID card/App  COMMUNICATION  WIFI, Bluetooth Yes  4G Optional  OCCPP OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT  Installation Wall-mount / Post-mount Operating Temperature 3-30°C ~50°C Operating Humidity 5% ~95% No condensation Operating Altitude ≤2000m  DIMENSION AND WEIGHT  Product Dimension 320*190*130 mm 320*190*144.5 mm  Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IKO8 Residual Current Detection AC 30mA/DC 6mA  Over Current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection.	Frequency	50/60Hz	
Maximum Current Rated Power 22kW  USEN INTERFACE & CONTROL  Connector Type Type 2 cable Type 2 cable Type 2 cable Type 2 socket(with Shutter) RFID Reader Miffare ISO/IEC 14443 A Start Mode Plug&Play/RFID card/App  COMMUNICATION  WIFI, Bluetooth Yes  4G Optional OCPP OCPP 1.6 JSON, OCPP 2.0 optional OCPP OCPP 1.6 JSON, OCPP 2.0 optional Power Installation Wall-mount / Post-mount Operating Temperature Operating Temperature Operating Humidity S% ~ 95% No condensation Operating Altitude S2000m  DIMENSION AND WEIGHT Product Dimension 320*190*130 mm 320*190*144.5 mm Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating KK protection rating KK protection rating Residual Current Detection Over current protection, Residual current protection, Ground protection, Surge protection, Over temperature protection, Over temperature protection, Surge protection, Over/Under voltage protection, Over temperature protection Over/Under voltage protection, Over temperature protection	OUTPUT		
Rated Power 22kW  USER INTERFACE & CONTROL  Connector Type Type 2 cable Type 2 socket(with Shutter)  RFID Reader Mifare ISO/IEC 14443 A  Start Mode Plug&Play/RFID card/App  COMMUNICATION  WIFI, Bluetooth Yes  4G Optional  OCPP OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT  Installiation Wall-mount / Post-mount Operating Temperature -30°C ~ 50°C Operating Humidity 5% ~ 95% No condensation Operating Humidity 5% ~ 95% No condensation Operating Altitude ≤2000m  DIMENSION AND WEIGHT  Product Dimension 320*190*130 mm 320*190*144.5 mm  Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IROS  IK protection rating IROS  Residual Current Detection AC 30mA/DC 6mA  Over current protection, Residual current protection, Ground protection, Surge protection, Over temperature protection, Over temperature protection, Over temperature protection.	Voltage	400Vac, ±20%	
### Connector Type   Type 2 cable   Type 2 socket(with Shutter)   ### RFID Reader   Mifare ISO/IEC 14443 A   ### Start Mode   Plug&Play/RFID card/App   ### COMMUNICATION   ### William Start Mode   Plug&Play/RFID card/App   ### COMMUNICATION   ### COM	Maximum Current	32A	
Connector Type Type 2 cable Type 2 socket(with Shutter) RFID Reader Mifare ISO/IEC 14443 A Start Mode Plug&Play/RFID card/App  COMMUNICATION WIFI, Bluetooth Yes 4G Optional OCPP OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT Unstallation Wall-mount / Post-mount Operating Temperature -30°C ~50°C Operating Humidity 5% ~95% No condensation Operating Altitude \$2000m  DIMENSION AND WEIGHT Product Dimension 320*190*130 mm 320*190*144.5 mm Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IP55 IK protection rating IK08 Residual Current Detection AC 30mA/DC 6mA Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection EMC Class B	Rated Power	22kW	
RFID Reader Mifare ISO/IEC 14443 A Start Mode Plug&Play/RFID card/App  COMMUNICATION  WiFi, Bluetooth Yes  4G Optional  OCPP OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT  Installation Wall-mount / Post-mount Operating Temperature -30°C ~ 50°C Operating Humidity 5% ~ 95% No condensation Operating Altitude \$2000m  DIMENSION AND WEIGHT  Product Dimension 320*190*130 mm 320*190*144.5 mm  Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IP55 IK protection rating IKO8 Residual Current Detection Over current protection, Residual current protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection EMC Class B	USER INTERFACE & CONTROL		
Start Mode Plug&Play/RFID card/App  COMMUNICATION  WiFi, Bluetooth Yes  4G Optional  OCPP OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT  Installation Wall-mount / Post-mount Operating Temperature -30°C ~50°C Operating Humidity 5% ~95% No condensation Operating Altitude \$2000m  DIMENSION AND WEIGHT  Product Dimension 320*190*130 mm 320*190*144.5 mm  Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IP55 IK protection rating IK08  Residual Current Detection AC 30mA/DC 6mA  Over current protection, Residual current protection, Ground protection, Surge protection, Electrical Protection Over/Under voltage protection, Over temperature protection EMC Class B	Connector Type	Type 2 cable	Type 2 socket(with Shutter)
WiFi, Bluetooth  WiFi, Bluetooth  Yes  4G  Optional  OCPP  OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT  Installation  Operating Temperature  Operating Humidity  Operating Humidity  Operating Altitude  Operating Altitude  Installation  Operating Altitude  Operating Altitude  Operating Altitude  Operating Altitude  Installation  Operating Mumidity  Operating Humidity  Operation Humid	RFID Reader	Mifare ISO/IEC 14443 A	
Wifi, Bluetooth  Yes  4G Optional  OCPP OCPP 1.6 JSON, OCPP 2.0 optional  ENVIRONMENT  Installation Wall-mount / Post-mount Operating Temperature -30°C ~50°C Operating Humidity 5% ~95% No condensation Operating Altitude 2000m  DIMENSION AND WEIGHT  Product Dimension 320*190*130 mm 320*190*144.5 mm Product Weight 3.55kg 2.0kg  SAFETY  IP protection rating IP55 IK protection rating IK08 Residual Current Detection Over current protection, Residual current protection, Ground protection, Surge protection, Over fumperature protection, Over temperature protection, Over temperature protection, EMC  ELECTRICAL Protection Over (Under voltage protection, Over temperature protection, Surge protection, Over (Under voltage protection, Over temperature protection)	Start Mode	Plug&Play/RFID card/App	
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Operating Humidity  Operating Altitude  ≤2000m  DIMENSION AND WEIGHT  Product Dimension  Product Weight  SAFETY  IP protection rating  IR protection rating  Residual Current Detection  Over current protection, Residual current protection, Ground protection, Surge protection, Over temperature protection  Over/Under voltage protection, Over temperature protection  EMC  Class B	Installation	Wall-mount / Post-mount	
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IK protection rating IK08  Residual Current Detection AC 30mA/DC 6mA  Over current protection, Residual current protection, Ground protection, Surge protection,  Over/Under voltage protection, Over temperature protection  EMC Class B	IP protection rating	IP55	
Over current protection, Residual current protection, Ground protection, Surge protection,  Over/Under voltage protection, Over temperature protection  EMC  Class B	IK protection rating	IK08	
Over current protection, Residual current protection, Ground protection, Surge protection,  Over/Under voltage protection, Over temperature protection  EMC  Class B	Residual Current Detection	AC 30mA/DC 6mA	
Electrical Protection  Over/Under voltage protection, Over temperature protection  EMC  Class B	Electrical Protection	Over current protection, Residual current protection, Ground protection, Surge protection,	
EMC Class B		Over/Under voltage protection, Over temperature protection	
	EMC	Class B	
Certification CE	Certification	CE	
	Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021	

