

EV Charging Solution Catalog





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EV3 Series 15kW Charging Module EV2501-015K-HR

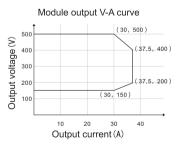


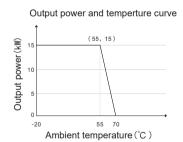


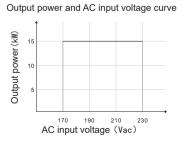
Product Features

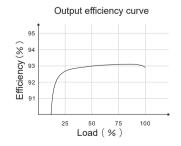
- Output voltage DC 150-500V to meet the requirements of most electric vehicles
- DC 400-500V wide voltage constant power output, the whole section is continuous, no switching, high reliability
- Module output peak current up to 37.5A, leading the industry
- High efficiency and low loss, peak efficiency high up to 93%, and stand-by power consumption less than 7.5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- Unique three-proof design (moisture-proof, fungiproof and salt fog-proof), which guarantees long life cycle
- Hot-plug design, easy to maintain
- Module address intelligent recognition

Performance Curve









nin 20%~100%	
≤ ±5% with load within the range of 50%~100% Ripple voltage peak factor < 1%; Effective value coefficient <0.5%	
No overshoot	
3s~5s (stable rated input to required output voltage)	
Yes Yes	
Protect on temperature over 70, and automatically recover when ≤65	
Yes	
Yes	
-20~70, derating output for temperature above 55 -40~75	

- The size of the product shall be subject to the actual contract.
 Specification is subject to change without prior notice.

EV3 Series 20kW Charging Module EV3751-020K-HR





Product Features

- Output voltage DC 200-750V to meet the requirements of most electric vehicles
- DC 330-750V wide voltage constant power output, the whole section is continuous, no switching, high reliability
- Module output peak current up to 60A, leading the industry
- High efficiency and low loss, peak efficiency high up to 95.5%, and stand-by power consumption less than 5.5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- Unique three-proof design (moisture-proof, fungiproof and salt fog-proof), which guarantees long life cycle
- Hot-plug design, easy to maintain
- Module address intelligent recognition

Performance Curve

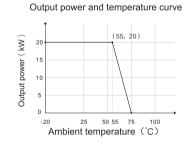
Module output V-A curve

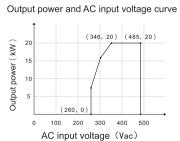
(26.6, 750)

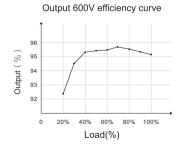
(60, 330)

(60, 320)

Output current (A)







AC input voltage range (V) 200-485Vac (3W+PE) Max input current (A) 36 Frequency range (Hz) 45-96 PF 20.99 THDI 55% COUPUT Efficiency 295.5% DC output voltage range (Y) 200-750 Constant power output voltage range (Y) 330-750 Couput voltage range (Y) 300-750 Current (A) 300-750 Current (A) \$00-80 \$0.55 Current (A) \$0.55 \$0.55	MODEL	EV3751-020K-HR	
Max. input current (A) 36 Frequency range (rt2) 45-66 PF ≥0,99 ThD ≤5% COUTPUT Efficiency Efficiency ≥95.5% Coutput vottage range (V) 200-750 Constant power output vottage range (V) 330-750 Output power (kW) 60 Max. output current (A) 60 OTHER INFORMATION OF EQUIPMENT 55.5 Stand-by power consumption (W) ≤5.5 Noise level (dB) 45 (Rated) Current regulation accuracy ≤40.76 (Rated) Current regulation accuracy ≤40.76 (Rated) Output vottage error ≤40.3A, load current less than 30A ≤ ±1%, load current to less than 30A, load current within 20%-100% Starting impulse current ≤40.3A, load current less than 30A ≤ ±1%, load current to less than 30A, load current within 20%-100% Starting impulse current ≤40.3A, load current less than 30A ≤ ±1%, load current to less than 30A, load current within 20%-100% Starting impulse current ≤40.3A, load current less than 30A ≤ ±1%, load current to less than 30A, load current within 20%-100% Starting impulse current ≤40.3A, load current less than 30A, ≤ ±1%, lo	AC INPUT		
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Part	Frequency range (Hz)	45~66	
DC OUTPUT Efficiency ≥95.5% DC output voltage range (V) 200-750 Constant power output voltage range (V) 330-750 Output power (kW) 20 Max. output current (A) 60 OTHER INFORMATION E EQUIPMENT Stand-by power consumption (W) \$5.5 Noise level (dB) 456 (Rated) Current regulation accuracy £41% Voltage regulation accuracy £40.3% (Sealed) Output voltage error £40.3A (load current less than 30A) £1% (load current less than 30A) (load current within 20%-10% Output voltage error £40.3A (load current less than 30A) £1% (load current less than 30A) (load current within 20%-10% Starting impulse current £10.5% Current regulation accuracy £40.3A (load current less than 30A) (load current within 20%-10% Starting impulse current £10.00% (Reference value +20°C) Uniform flow unbalance £53.0% (×20A) with load within the range of 50%-100% Output ripple Ripple voltage peak factor <1% Effective value coefficient <0.5%	PF	≥0.99	
Efficiency £85.5% DC output voltage range (V) 200-750 Constant power output voltage range (V) 330-750 Output power (KW) 60 Max. output current (A) 60 OTHER INFORMATION OF EQUIPMENT Stand-by power consumption (W) ≤5.5 Noise level (dB) <65 (Rate)	THDi	≤5%	
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Output power (kW) 20 Max. output current (A) 60 OTHER INFORMATION OF EQUIPMENT Stand-by power consumption (W) \$5.5 Noise level (dB) <85 (Rated)	DC output voltage range (V)	200~750	
Max. output current (A) 60 OTHER INFORMATION OF EQUIPMENT Stand-by power consumption (W) ≤5.5 Noise level (dB) <65 (Rated) Current regulation accuracy ≤±1% Output voitage error ≤±0.5% Output current error ≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100% Starting impulse current ≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100% Uniform flow unbalance ≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100% Uniform flow unbalance ≤±0.3A, load current less than 30A; ≤±10, load current in less than 30A, load current within 20%-100% Uniform flow unbalance ≤±0.3A, load current less than 30A; ≤±0.02% (Reference value +20°C) Uniform flow unbalance ≤±0.3A, load current less than 30A; ≤±0.02% (Reference value +20°C) Uniform flow unbalance ≤±0.3A, load current less than 30A; ≤±0.00% Power overshot range Ripple value cuefficient <0.5% Boot time 3s-8 (stable rated input to required output voltage) Uniform flow unbalance protection Power, alarm, fault Constituted in indicator Power, alarm, fault	Constant power output voltage range (V)	330~750	
OTHER INFORMATION OF EQUIPMENT Stand-by power consumption (W) \$5.5 Noise level (dB) <65 (Rated)	Output power (kW)	20	
Stand-by power consumption (W) ≤5.5 Noise level (dB) <65 (Rated) Current regulation accuracy ≤±1% Voltage regulation accuracy ≤±0.5% Output voltage error ≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100% Statring impulse current ≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100% Statring impulse current ≤±0.2% (Reference value +20°C) Uniform flow unbalance ≤±3.0% (*20A) with load within the range of 50%-100% Output ripple Ripple voltage peak factor < 1% Effective value coefficient <0.5% Power overshoot range No overshoot Boot time 3s~8s (stable rated input to required output voltage) Dimension (W-D×H) mm 223×400×87 Weight (kg) ≤12 Input standby reactive power (Var) 350 CONFIGURATION AND PROTECTION CONFIGURATION AND PROTECTION Operation indicator Power, alarm, fault Communication CAN(500kbps) + Digital enable signal AC input three phase unbalance protection Yes DC output over/under voltage protection Yes	Max. output current (A)	60	
Noise level (dB) <65 (Rated)	OTHER INFORMATION OF EQUIPMENT		
Current regulation accuracy ≤±1% Voltage regulation accuracy ≤±0.5% Output voltage error ≤±0.3A, load current less than 30A, ≤±1%, load current no less than 30A, load current within 20%-100% Starting impulse current <±10.3A, load current less than 30A, ≤±1%, load current no less than 30A, load current within 20%-100%	Stand-by power consumption (W)	≤5.5	
Current regulation accuracy ≤±1% Voltage regulation accuracy ≤±0.5% Output voltage error ≤±0.3A, load current less than 30A, ≤±1%, load current no less than 30A, load current within 20%-100% Starting impulse current <±10.3A, load current less than 30A, ≤±1%, load current no less than 30A, load current within 20%-100%		<65 (Rated)	
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Output voltage error ≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100% Starting impulse current <±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100%	Voltage regulation accuracy	≤±0.5%	
Output current error \$±0.3A, load current less than 30A; \$±1%, load current no less than 30A, load current within 20%~100% Starting impulse current <110%		≤±0.5%	
Starting impulse current Temperature coefficient S±0.02% (Reference value +20°C) Uniform flow unbalance S±3.0% (×20A) with load within the range of 50%~100% Output ripple Ripple voltage peak factor < 1% Effective value coefficient <0.5% Power overshoot range No overshoot Boot time 3s-8s (stable rated input to required output voltage) Dimension (W×D×H) mm 223×400×87 Weight (kg) \$12 Input standby reactive power (Var) Operation indicator Operation indicator CONFIGURATION AND PROTECTION AC input three phase unbalance protection AC input over/under voltage protection CO output over/under voltage protection Power-temperature voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT Attitude (m) S±2,000 (derate when altitude >2,000) Working temperature above 55		≤ ±0.3A, load current less than 30A; ≤ ±1%, load current no less than 30A, load current within 20%~100%	
Temperature coefficient S±0.02% (Reference value +20°C) Uniform flow unbalance S±3.0% (*20A) with load within the range of 50%~100% Output ripple Ripple voltage peak factor < 1% Effective value coefficient <0.5% Power overshoot range No overshoot Boot time 3s~8s (stable rated input to required output voltage) Dimension (W*D×H) mm 223*400×87 Weight (kg) S12 Input standby reactive power (Var) Operation indicator CONFIGURATION AND PROTECTION Operation indicator Communication Can(500kbps) + Digital enable signal AC input three phase unbalance protection AC input over/under voltage protection Coutput over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT Altitude (m) \$2,000 (derate when altitude >2,000) Working temperature above 55			
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Boot time 3s~8s (stable rated input to required output voltage) Dimension (W×D×H) mm 223×400×87 Weight (kg) ≤12 Input standby reactive power (Var) 350 CONFIGURATION AND PROTECTION Operation indicator Power, alarm, fault Communication CAN(500kbps) + Digital enable signal AC input three phase unbalance protection Yes AC input over/under voltage protection Yes DC output over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT Altitude (m) ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
Dimension (W×D×H) mm 223×400×87 Weight (kg) ≤12 Input standby reactive power (Var) 350 CONFIGURATION AND PROTECTION Operation indicator Power, alarm, fault Communication CAN(500kbps) + Digital enable signal AC input three phase unbalance protection Yes AC input over/under voltage protection Yes DC output over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT Altitude (m) Working temperature (°C) -20~75, derating output for temperature above 55			
Weight (kg) ≤12 Input standby reactive power (Var) 350 CONFIGURATION AND PROTECTION Operation indicator Power, alarm, fault Communication CAN(500kbps) + Digital enable signal AC input three phase unbalance protection Yes AC input over/under voltage protection Yes DC output over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT Altitude (m) ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55	Dimension (W×D×H) mm		
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CONFIGURATION AND PROTECTION Operation indicator Power, alarm, fault Communication CAN(500kbps) + Digital enable signal AC input three phase unbalance protection Yes AC input over/under voltage protection Yes DC output over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
Operation indicator Power, alarm, fault Communication CAN(500kbps) + Digital enable signal AC input three phase unbalance protection Yes AC input over/under voltage protection Yes DC output over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
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AC input three phase unbalance protection AC input over/under voltage protection DC output over/under voltage protection Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT Altitude (m) ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
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DC output over/under voltage protection Yes Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
Over-temperature protection (°C) Protect on temperature over 75, and automatically recover when ≤70 Output current limit protection Yes Short-circuit protection Yes WORKING ENVIRONMENT ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
Output current limit protection Short-circuit protection Yes WORKING ENVIRONMENT Altitude (m) \$\leq 2,000 \text{ (derate when altitude >2,000)}\$ Working temperature (°C) \$\leq 20~75, \text{ derating output for temperature above 55}\$			
Short-circuit protection WORKING ENVIRONMENT Altitude (m) ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
WORKING ENVIRONMENT Altitude (m) ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55			
Altitude (m) ≤2,000 (derate when altitude >2,000) Working temperature (°C) -20~75, derating output for temperature above 55	·		
Working temperature (°C) -20~75, derating output for temperature above 55		<2 000 (derate when altitude >2 000)	
olorago temperataro (O)			
Humidity 5%~95%			

- The size of the product shall be subject to the actual contract.
 Specification is subject to change without prior notice.

EV3 Series 20kW Charging Module EV3102-020K-HR



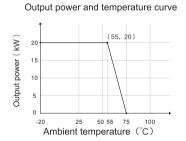


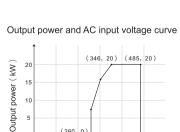
Product Features

- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 600-1000V wide voltage constant power output, the whole section is continuous, no switching, high reliability
- Module output peak current up to 33.3A, leading the industry
- High efficiency and low loss, peak efficiency high up to 95.5%, and stand-by power consumption less than 5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- Unique three-proof design (moisture-proof, fungiproof and salt fog-proof), which guarantees long life cycle
- Module address intelligent recognition

Performance Curve

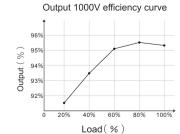
Module output V-A curve (20, 1000) Output voltage (V) 900 800 700 600 500 400 300 (33.3, 600 (33.3, 400) (33.3, 200) (30, 150) Output current (A)





200 300

AC input voltage (Vac)



Hot-plug design, easy to maintain

MODEL	EV3102-020K-HR	
AC INPUT		
AC input voltage range (V)	260~485Vac (3W+PE)	
Max. input current (A)	36	
Frequency range (Hz)	45~66	
PF	≥0.99	
THDi	≤5%	
DC OUTPUT		
Efficiency	≥95.5%	
DC output voltage range (V)	150~1000	
Constant power output voltage range (V)	600~1000	
Output power (kW)	20	
Max. output current (A)	33.3	
OTHER INFORMATION OF EQUIPMENT		
Stand-by power consumption (W)	≤5	
Noise level (dB)	<65 (Rated)	
Current regulation accuracy	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Output voltage error	≤±0.5%	
Output current error	≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%~100%	
Starting impulse current	<110%	
Temperature coefficient	≤±0.02% (Reference value +20°C)	
Uniform flow unbalance	≤±3.0% (×20A) with load within the range of 50%~100%	
Output ripple	Ripple voltage peak factor <1% Effective value coefficient <0.5%	
Power overshoot range	No overshoot	
Boot time	3~5s (stable rated input to required output voltage)	
Dimension (W×D×H) mm	223×400×87	
Weight (kg)	≤12	
Input standby reactive power (Var)	350	
CONFIGURATION AND PROTECTION		
Operation indicator	Power, alarm, fault	
Communication	CAN (500kbps) + Digital enable signal	
AC input three phase unbalance protection	Yes	
AC input over/under voltage protection	Yes	
DC output over/under voltage protection	Yes	
Over-temperature protection (°C)	Protect on temperature over 75, and automatically recover when ≤70	
Output current limit protection	Yes	
Short-circuit protection	Yes	
WORKING ENVIRONMENT		
Altitude (m)	≤2,000 (derate when altitude >2,000)	
Working temperature (°C)	-20~75, derating output for temperature above 55	
Storage temperature (°C)	-40~75	
Humidity	5%~95%	
Trumuity	370-9370	

- The size of the product shall be subject to the actual contract.
 Specification is subject to change without prior notice.

EV3 Series 30kW Charging Module EV3102-030K-HR1





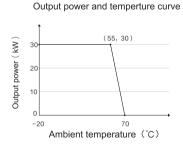


Product Features

- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 275-1000V wide voltage constant power output, the whole section is continuous, high reliability
- Module output peak current up to 109A, leading the industry
- High efficiency and low loss, peak efficiency high up to 96%, and stand-by power consumption less than 7.5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- The unique three-proof design (moisture-proof, fungi-proof, salt-fog-proof) and advanced dipping process are for harsh environments and ensure the long service life

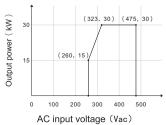
Performance Curve

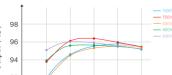
Module output V-A curve





Output current (A)





Load(%)

100

Output efficiency curve

MODEL	EV3102-030K-HR1	
AC INPUT		
AC input voltage range (V)	260~475Vac (3W+PE)	
Max. input current (A)	58	
Frequency range (Hz)	45~66	
PF	≥0.99	
THDi	≤5%	
DC OUTPUT		
Efficiency	≥96%	
DC output voltage range (V)	150~1000	
Constant power output voltage range (V)	275~1000	
Output power (kW)	30	
Max. output current (A)	109 (<30°C)/100 (≥30°C)	
OTHER INFORMATION OF EQUIPMENT		
Stand-by power consumption (W)	≤7.5	
Noise level (dB)	<65 (Rated)	
Current regulation accuracy	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Output voltage error	≤±0.5%	
Output current error	≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%~100%	
Starting impulse current	<110%	
Temperature coefficient(°C)	≤±0.02% (Reference value +20)	
Uniform flow unbalance	≤±3.0% (×20A) with load within the range of 50%~100%	
Output ripple	Ripple voltage peak factor <1% Effective value coefficient <0.5%	
Power overshoot range	No overshoot	
Boot time	3~5s (stable rated input to required output voltage)	
Dimension (W×D×H) mm	300×462×86	
Weight (kg)	≤16.5	
Input standby reactive power (Var)	750	
EMC	Class B	
CONFIGURATION AND PROTECTION		
Operation indicator	Power, alarm, fault	
Communication	CAN (500kbps) + Digital enable signal	
AC input three phase unbalance protection	Yes	
AC input over/under voltage protection	Yes	
DC output over/under voltage protection	Yes	
Over-temperature protection (°C)	Protect on temperature over 70, and automatically recover when ≤65	
Output current limit protection	Yes	
Short-circuit protection	Yes	
WORKING ENVIRONMENT		
Altitude (m)	≤2,000 (derate when altitude >2,000)	
	-20~70, derating output for temperature above 55	
Working temperature (°C)	-20~70, derating output for temperature above 55	
Storage temperature (°C)	-20~70, derating output for temperature above 55 -40~75	

- The size of the product shall be subject to the actual contract. Specification is subject to change without prior notice.

EV3 Series 30kW Charging Module EV3102-030K-HR1(UL)







Product Features

- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 300-1000V wide voltage constant power output, the whole section is continuous, high reliability
- Module output peak current up to 100A, leading the industry
- High efficiency and low loss, peak efficiency high up to 96%, and stand-by power consumption less than 7.5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- The unique three-proof design (moisture-proof, fungi-proof, salt-fog-proof) and advanced dipping process are for harsh environments and ensure the long service life
- Hot-plug design, easy to maintain
- Module address intelligent recognition

Performance Curve

Module output V-A curve

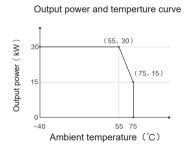
(30, 1000)

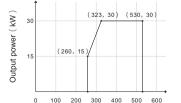
(40, 750)

(100, 300)

(100, 250)

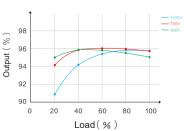
Output current (A)





AC input voltage (Vac)

Output power and AC input voltage curve



Output efficiency curve

MODEL	EV3102-030K-HR1(UL)	
AC INPUT		
AC input voltage range (V)	260~530Vac (3W+PE)	
Max. input current (A)	58	
Frequency range (Hz)	45~66	
PF	≥0.99	
THDi	≤5%	
DC OUTPUT		
Efficiency	≥96%	
DC output voltage range (V)	150~1000	
Constant power output voltage range (V)	300~1000	
Output power (kW)	30	
Max. output current (A)	100	
OTHER INFORMATION OF EQUIPMENT		
Stand-by power consumption (W)	≤7.5	
Noise level (dB)	<65 (Rated)	
Current regulation accuracy	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Output voltage error	≤±0.5%	
Output current error	≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A	
Starting impulse current	<110%	
Temperature coefficient	≤±0.02% (Reference value +20°C)	
Uniform flow unbalance	≤±3.0% (×20A) with load within the range of 50%~100%	
Output ripple	Ripple voltage peak factor <1% Effective value coefficient <0.5%	
Power overshoot range	No overshoot	
Boot time	3~5s (stable rated input to required output voltage)	
Dimension (W×D×H) mm	300×462×86	
Weight (kg)	≤16.5	
Input standby reactive power(Var)	750	
EMC	Class B	
CONFIGURATION AND PROTECTION		
Operation indicator	Power, alarm, fault	
Communication	CAN (500kbps) + Digital enable signal	
AC input three phase unbalance protection	Yes	
AC input over/under voltage protection	Yes	
DC output over/under voltage protection	Yes	
Over-temperature protection (°C)	Protect on temperature over 75, and automatically recover when ≤70	
Output current limit protection	Yes	
Short-circuit protection	Yes	
WORKING ENVIRONMENT		
Altitude (m)	≤2,000 (derate when altitude >2,000)	
Working temperature (°C)	-40~75, derating output for temperature above 55	
Storage temperature (°C)	-40~75	
Humidity	5%~95%	

- The size of the product shall be subject to the actual contract. Specification is subject to change without prior notice.

EV3 Series 40kW Charging Module EV3102-040K-HR-UC



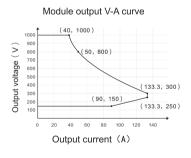


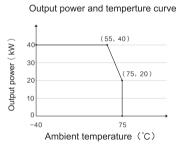


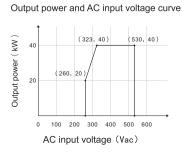
Product Features

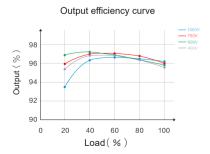
- Output voltage DC 150-1000V to meet the requirements of most electric vehicles
- DC 300-1000V wide voltage constant power output, the whole section is continuous, high reliability
- Module output peak current up to 133.3A, leading the industry
- With the SiC device, the peak efficiency of the charging module can reach 97%, which saves more power and energy, and stand-by power consumption less than 7.5W
- Equipped with leak circuit, which reduces the difficulty of pile design
- Module in-position detection, easy to install and maintain
- The unique three-proof design (moisture-proof, fungi-proof, salt-fog-proof) and advanced dipping process are for harsh environments and ensure the long service life
- Ultra-wide operating temperature range -40~75°C, derating output above 55°C
- Four-dimensional intelligent fan control, three-level intelligent noise reduction control, with lower noise

Performance Curve









MODEL	EV3102-040K-HR-UC	
AC INPUT		
AC input voltage range (V)	260~530Vac (3W+PE)	
Max. input current (A)	75	
Frequency range (Hz)	45~66	
PF	≥0.99	
THDi	≤5%	
DC OUTPUT		
Efficiency	≥97%	
DC output voltage range (V)	150~1000	
Constant power output voltage range (V)	300~1000	
Output power (kW)	40	
Max. output current (A)	133.3	
OTHER INFORMATION OF EQUIPMENT		
Stand-by power consumption (W)	≤7.5	
Noise level (dB)	<65 (Rated)	
Current regulation accuracy	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Output voltage error	≤±0.5%	
Output current error	≤±0.3A, load current less than 30A; ≤±1%, load current no less than 30A, load current within 20%-100%	
Starting impulse current	<110%	
Temperature coefficient	≤±0.02% (Reference value +20°C)	
Uniform flow unbalance	≤±3.0% (×20A) with load within the range of 50%~100%	
Output ripple	Ripple voltage peak factor <1% Effective value coefficient <0.5%	
Power overshoot range	No overshoot	
Boot time	3~5s (stable rated input to required output voltage)	
Dimension (W×D×H) mm	300×462×86	
Weight (kg)	≤16.5	
Input standby reactive power (Var)	750	
EMC	Class B	
CONFIGURATION AND PROTECTION		
Operation indicator	Power, alarm, fault	
Communication	CAN (500kbps) + Digital enable signal	
AC input three phase unbalance protection	Yes	
AC input over/under voltage protection	Yes	
DC output over/under voltage protection	Yes	
Over-temperature protection (°C)	Protect on temperature over 75, and automatically recover when ≤70	
Output current limit protection	Yes	
Short-circuit protection	Yes	
WORKING ENVIRONMENT		
Altitude (m)	≤2,000 (derate when altitude >2,000)	
Working temperature (°C)	-40~75, rated output for temperature -20~55	
Storage temperature (°C)	-40~75	
Humidity	5%~95%	

- The size of the product shall be subject to the actual contract. Specification is subject to change without prior notice.

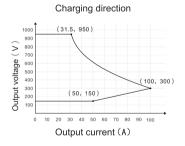
EV3 Series 30kW V2G Module EV3102-030K-GR

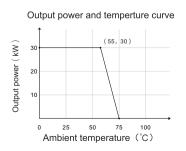


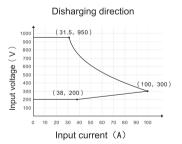
Product Features

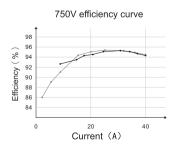
- A bidirectional converter for connecting the battery or EV to the AC grid, specially designed for V2G applications
- DC 300-950V wide voltage constant power output or input, the whole section is continuous, no switching, high reliability
- Wide voltage range in AC2DC and DC2AC mode, suitable for multiple battery packs
- Smooth transition with less than 10ms when power flow changes direction
- Module peak current up to 100A, leading the industry
- High efficiency and low loss, peak efficiency high up to 95%
- Equipped with leak circuit, which reduces the difficulty of pile design
- Unique three-proof design (moisture-proof, fungiproof and salt fog-proof) and advanced dip coating process, which guarantee long life cycle
- Hot-plug design and module address intelligent recognition, easy to maintain

Performance Curve









MODEL	EV3102-030K-GR	
AC2DC MODE-AC INPUT		
AC input voltage range (V)	323~437Vac	
Frequency range (Hz)	45~55	
AC2DC MODE-DC OUTPUT		
Output power (kW)	30	
DC output voltage range (V)	150~950	
Constant power output voltage range (V)	300~950	
Max. input current (A)	100	
DC2AC MODE-DC INPUT		
DC input voltage range (V)	200~950	
Max. input current (A)	100	
DC2AC MODE-AC OUTPUT		
AC output voltage range (V)	323~437Vac	
Frequency range (Hz)	49~51	
Power factor	>0.99 (100% load)	
THDi	≤5% (50% load)	
Current direct component	<0.5%	
OTHER INFORMATION OF EQUIPMENT		
Efficiency	≥95%	
Stand-by power consumption (W)	≤15	
Noise level (dB)	<65 (Rated)	
Current regulation accuracy	≤±1%	
Voltage regulation accuracy	≤±0.5%	
Starting impulse current	<110%	
Temperature coefficient	≤±0.02% (Reference value +20°C)	
Power overshoot range	No overshoot	
Boot time	3~8s (stable rated input to required output voltage)	
Dimension (W×D×H) mm	385×500×110	
Weight (kg)	≤26	
CONFIGURATION AND PROTECTION		
Operation indicator	Power, alarm, fault	
Communication	CAN(125kbps) + Digital enable signal	
AC input three phase unbalance protection	Yes	
Input over/under voltage protection	Yes	
Output over/under voltage protection	Yes	
Over-temperature protection (°C)	Protect on temperature over 75, and automatically recover when ≤70	
Current limit protection	Yes	
Short-circuit protection	Yes	
WORKING ENVIRONMENT		
Altitude (m)	≤2,000 (derate when altitude >2,000)	
Working temperature (°C)	-25~75, derating output for temperature above 55	
Storage temperature (°C)	-40~75	
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- The size of the product shall be subject to the actual contract. Specification is subject to change without prior notice.

480kW/960kW Power Cabinet EVD-480SF/EVD-960SF





Highlights

High Performance



- The SiC high-efficiency charging module, combined with an optimal efficiency control strategy, achieves a system peak efficiency of ≥96%
- Reduced cost by intelligent and dynamic charging power distribution based on demand
- Unique funnel-shaped airflow design with smart fan control; noise level ≤ 60dB under rated conditions (25°C, 1m)
- Wide operating temperature range of -30°C to 55°C
- Supports ODM development

Easy O&M

- Online OTA updates with intelligent O&M management
- Automatic module address setup, doubling O&M efficiency
- Clogged filter and fan malfunction alerts
- 10-day local storage for original BMS interaction data with fault recording
- Slide-out dust filter with maintenance within 5 minutes

Smart & Safe



- Multiple protection measures and isolation reverse protection ensure comprehensive charging safety
- Unique three-phase imbalance control for various special grid environments
- IP54 dustproof and waterproof. Corrosion resistance
- Local power limit feature enables reliable operation during grid outages

Scalable & Compatible



- 200~1000V of charging range, accommodate various vehicle models
- Compatible with CCS1, CCS2, CHAdeMO, and GB/T standard liquid and air cooling dispenser
- Complies with CE and UL certifications
- Modular design enables power expansion by adding additional modules
- Scalable power cabinet design enables upgrades to megawatt-level capacity

SPECIFICATION	MODEL	EVD-480SF	EVD-960SF	
	Rated voltage(VAC)	400 / 480(option)		
	Input voltage range (VAC)	323-475 / 323-530 (option)		
	AC input connection	3P + N + PE		
AC INPUT	Frequency range (Hz)	45~66		
	PF	≥ 0.99		
	THDI	≤ 5% (More than half load)		
	DC output voltage range (V)	200 ~ 1	000	
	Output power (kW)	480	960	
	Max output total current (A)	0-1600	0-3200	
	Single maximum output current(A)	500 liquid-cooling cable	200 air-cooling cable	
DO OLITBUT	Maximum number of output	12	24	
DC OUTPUT	Min switching power (kW)	40		
	Power distribution	Intelligent dis	stribution	
	Voltage regulation accuracy	≤ ± 0.5	5%	
	Current regulation accuracy	≤±1%		
	Output voltage ripple	Ripple voltage peak factor < 1%, E	ffective value coefffcient <0.5%	
	Over-temperature protection	Yes		
	Input over/under voltage protection	Yes		
	Maintenance door open for protection	Yes		
WARNING &	Output short circuit protection	Yes		
PROTECTION	Parallel contactor fault protection			
	Emergency stop protection	Yes		
	SPD failure protection	Yes		
	Filter dust warning	Yes		
	Peak efficiency	≥ 96%		
	Noise level (dB)	≤ 60(Rated conditions)		
	Indicator light	Power on/off, Ch	arging, Fault	
	Network connection	Ethernet / 4G		
OTHERS	Ventilation	Air-coo	ling	
	Type of communication	CAN, 250	kbit/s	
	EMC	Class A		
	Reference standard	IEC 61851-1, IEC 61851-23, IEC 61851-21-2 UL 2202		
	Certification	TUV-CE, UL		
	Operating altitude (m)	≤ 2000		
ENVIRONMENT	Operating temperature(°C)	-30 ∼ +55, derating output for temperature over 50 ℃		
	Storage temperature(°C)	-40 ~ 70		
	Relative humidity	5% ~ 95%		
MECHANICAL	IP level	IP54		
	IK level IK10)	
SPECIFICATIONS	Size (W x D x H) (mm)	805×1100×1800	2000×850×1700	
	Option	○Smoke sensor ○Dehumidifier ○Immersion detection ○RCD breaker		
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The size of the product shall be subject to the actual contract. Specification is subject to change without prior notice.

Applications













Applications













Applications













Main Partners





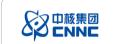






































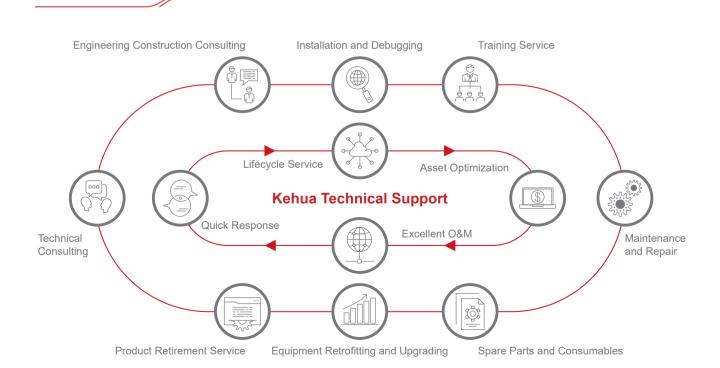








After-sales Service



Distribution of Branches and Service Outlets





Reliable • Flexible • Responsible

Shenzhen Kehua Hengsheng Technology Co., Ltd.

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