

EV3 Series 30kW V2G Module

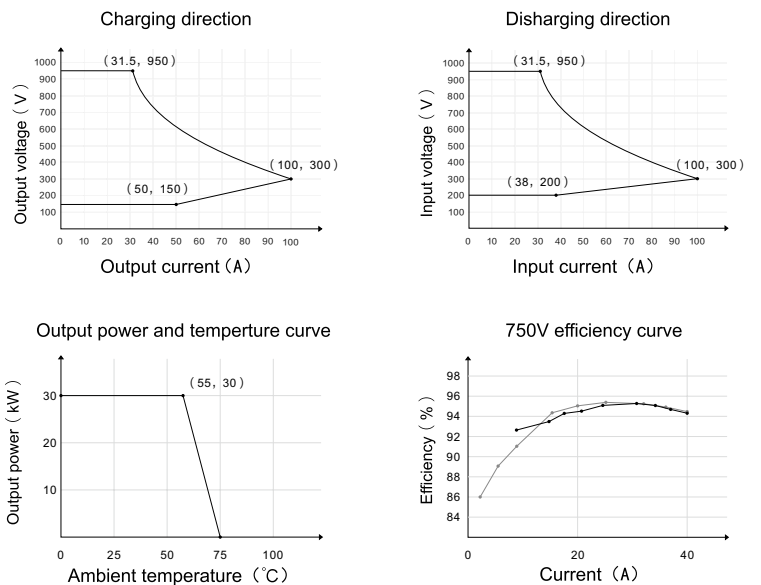
EV3102-030K-GR



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



Technical Specification

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
Humidity	5%~95%

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