

EV3 Series 20kW Charging Module

EV3751-020K-HR

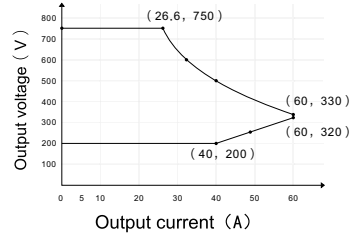


Product Features

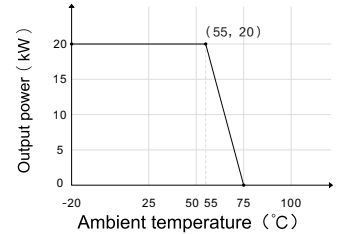
- Output voltage DC 200-750V to meet the requirements of most electric vehicles
- DC 330-750V wide voltage constant power output, the whole section is continuous, no switching, high reliability
- Module output peak current up to 60A, leading the industry
- High efficiency and low loss, peak efficiency 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

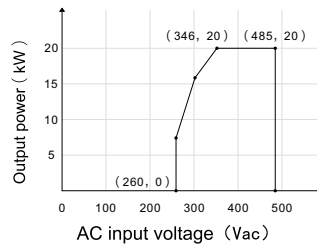
Module output V-A curve



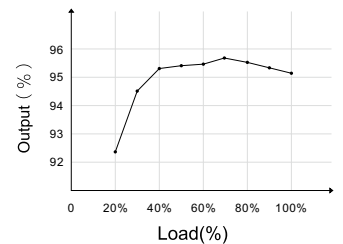
Output power and temperature curve



Output power and AC input voltage curve



Output 600V efficiency curve



Technical Specification

MODEL	EV3751-020K-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)	200~750
Constant power output voltage range (V)	330~750
Output power (kW)	20
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%
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	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
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.