

## Heavy-Duty Trucks (Commercial Vehicles)

### Product Description

- Used for charging the batteries in battery-swap station for heavy-duty trucks
- Customization of appearance, protocols, etc. according to different requirements
- Dual-circuit CAN communication on the battery side enables charging status & usual status monitoring
- Communication with battery-swap station is performed in accordance with standard host computer protocol (customized), mostly using Ethernet connection.
- Dual-circuit charging in parallel to meet the demand for large-capacity battery
- For standard product, external charging terminal is configurable for charging the vehicle with external charging connector when left unused or faulty.



### Application Scenarios

 Logistics park

 Port

 Concrete mixing plant

 Freightstation

 Steel plant

Item	Parameters			
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#### Basic index

Model	YLHDD300K02	YLHDD320K02	YLHDD400K02	YLHDD600K03
Rated power	300kW	320kW	400kW	600kW
Number of output circuits	2			3
Cooling method	Fan cooling			
Network type	Ethernet/4G			
HMI	7-inch touch screen			
Start-up method	Control platform for battery swap station/ Manually			
Operating environment	Indoor (IP20)			
Dimensions (WxDxH)	1600×800×1000mm	880×1800×750mm	750x600x2250mm	1460x800x1950mm

#### Input

Input voltage	380VAC ± 15%, 3P+N+PE
Frequency	50 ± 1Hz
power factor	≥ 0.99
ITHD	≤ 5%

#### Output

Voltage range	200~1000VDC (constant power range: 300~1000VDC)			
Max current per plug	250A			
Max power per plug (charge simultaneously)	150kW	160kW	200kW	
Max efficiency	≥ 95%			
Output voltage error	≤ ± 0.5%			
Output current error	≤ ± 1%			
Voltage stabilized accuracy	≤ ± 0.5%			
Current stabilized accuracy	≤ ± 1%			
Peak-peak ripple	≤ ± 1%			

#### Environment

Operating temperature	-20 ~ +50°C
Storage temperature	-40 ~ +75°C
Humidity	5~95%RH, non-condensing
Altitude	≤ 2000m no derating required; > 2000m, the working temperature decreases by 1 °C for every 100m rise