

# GO ON THE ROAD TOGETHER

## MAIN CONFIGURATION DESCRIPTION

### Compressor

German original high-efficiency BOCK FKX40/390TK 4-cylinder compressor.  
Refrigeration system valve parts are used Danfoss and Spoland and other international first-class brands.

### High efficiency generator

DC48V 100A intelligent frequency conversion, low noise, low fuel consumption, high power efficient generator.

### Battery

Large capacity, small size lithium iron phosphate battery.  
High current charging and discharging, wide temperature range, fully isolated circuit, anti-vibration and anti-interference, high safety.

### Charger

DeLanshi high-efficiency, intelligent charger, high-current fast charging, full charge self-stop. 3.5 hours to charge the battery pack from 20% to 100%.

### DC Brushless Motor

Golden (UK) DC48V DC brushless motor, international leading technology, super power, super reliability.  
Adopting sine wave vector controller, high efficiency, high smoothness, programmable control.  
Controller using liquid cooling protection.

### DP8807 controller

The DP8807 controller is a controller designed for the use of extended range electric refrigeration units.

- Power battery, range extender, refrigeration system control, remote monitoring and local data download. functions can meet the needs of logistics cold chain management.
- System alarm and performance monitoring.
- Refrigeration/freezing mode.
- Automatic defrost.
- Fahrenheit/Celsius temperature conversion.
- Parameter setting interface is open to end users.

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# EKL660

## ON BOARD ELECTRIC REFRIGERATION UNIT

# CHARACTERISTIC

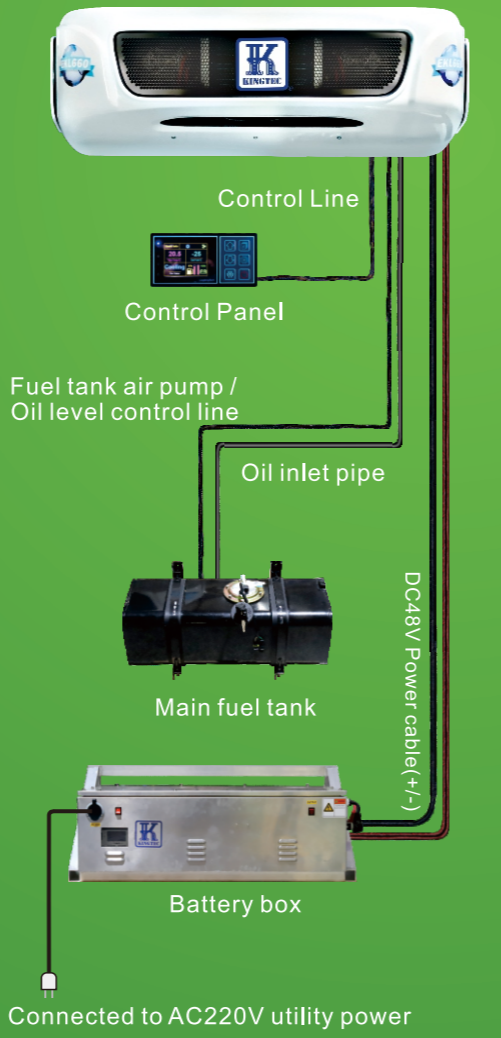
Developed based on a mature platform, EKL660 has outstanding performance in refrigeration capacity, power system and energy efficiency of the whole machine. The EKL660 also offers high reliability and durability. Smooth shape design, new process to manufacture high strength composite shell. DC power provided by DC48V battery pack, and DC48V brushless motor drives the compressor to drive the refrigeration system work. The EKL660 is equipped with high efficiency and powerful range extender, and the unit can provide DC48V 100A DC power when operating. When the system is under high load, the generator power and battery power together provide power for the system. Under low load and defrost conditions, the surplus power of the generator can charge the battery pack, which greatly extends the working time of the unit. It adopts AC220V (≥25A) utility power to charge the battery pack, which is convenient and efficient. In the parking state of reefer truck, it can directly access the utility power and run the unit under the charging state, which greatly reduces the operation cost.

# DIMENSIONS: mm (Inch)



# COMBINATION DIAGRAM

EKL660 range extender electric unit.



# TECHNICAL PARAMETER

Refrigeration capacity (When system at 35°C ambient temperature, the net cooling capacity of compressor at high speed.)

Evaporator return air temperature	Cooling capacity	
	Btu/hr	Watts
-18°C (0°F)	15693	4600
2°C (35°F)	24563	7200
Applicable box volume	25-32m <sup>3</sup>	
Refrigerant	R404A	
Refrigerant charge volume	5.5kg	
Compressor		
Type	BOCK FKX40/390TK	
Displacement (cc)	385	
Circulating air volume (m <sup>3</sup> /h)		
100Pa static pressure	4200	
Range Extender		
Electricity generation	DC48V 100A	
Engine Displacement (cc)	272	
Fuel consumption (L/hrs)	1.92	
Motor Oil	5W/10W-40	
Maintenance interval (hrs)	3000	
Battery pack		
Specification	Lithium iron phosphate battery	
Voltage	DC48V	
Capacity (Kwh)	19.2	
Endurance (hrs)	≥6	
Charger		
Specification	AC220V-DC48V	
Charging current (A)	80-100	
Battery pack charging time (20%-100%)	3.5hrs	
Fuel tank		
Volume (L)	42	
Duration of continuous oil supply (hrs)	≥22	

**Kingtec as the first-line brands is the first to launch the range extend electric refrigeration unit.** This range extender small displacement engine has better fuel saving than the diesel unit engine. According to the comprehensive test comparison, the operating cost is reduced by 38%. Using a small capacity battery pack, its weight and cost is far less than the all electric unit. Also can achieve longer using time. In the energy supplement is more convenience.