

# ENERGY Saving and Conversion

# EV Drives

## EV40 - V3D

Motor Drive for Turbo Compressors in Fuel Cell Systems.

### ○ Wide Voltage Range

- Nominal operating input voltage range from 250Vdc to 750Vdc(Max.800Vdc)
- Operation of turbo compressor with wide voltage range. 170Vac ~ 500Vac

### ○ High Power Density

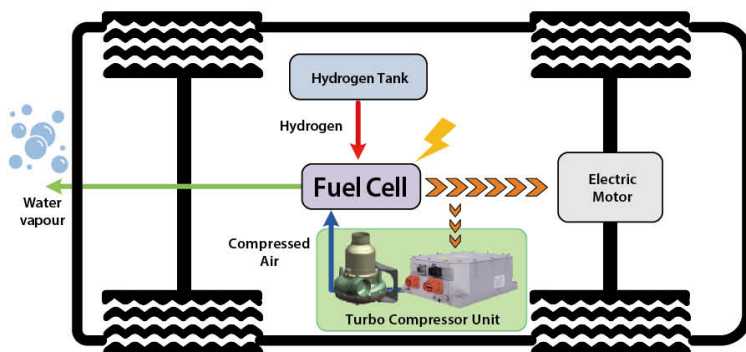
- Rated output capacity 22kVA

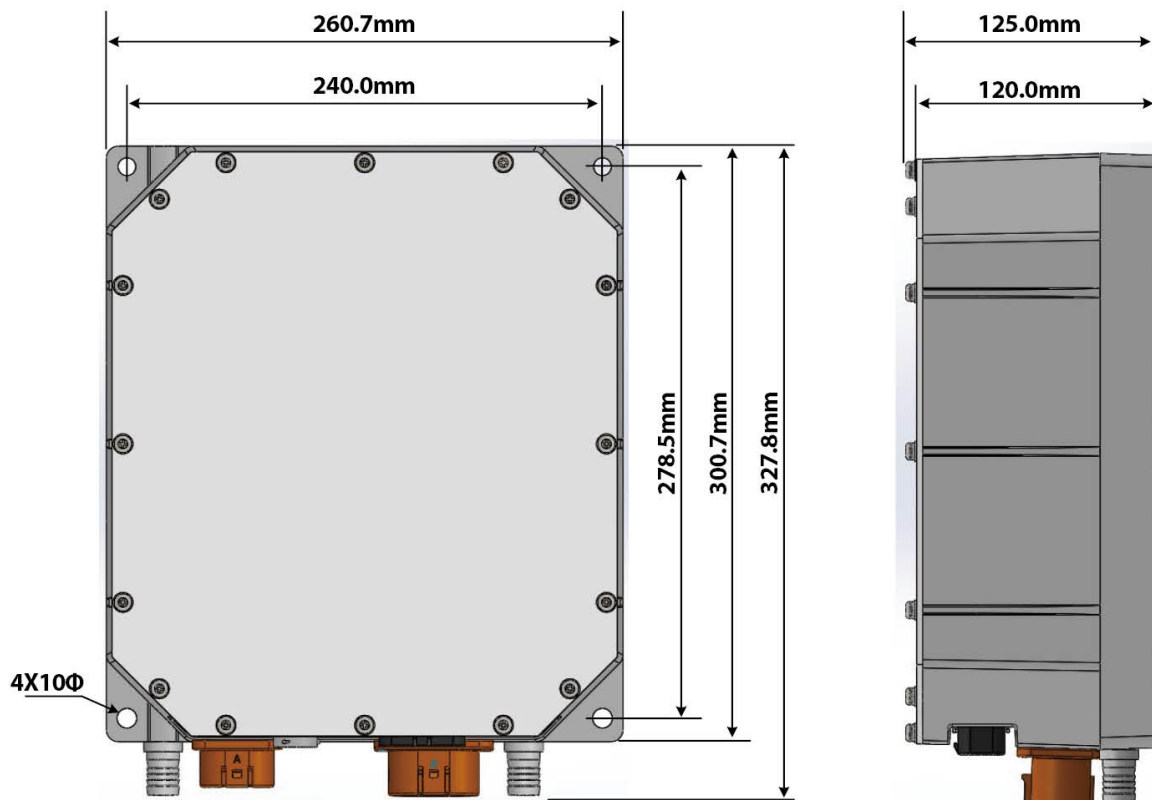
### ○ High Speed Vector Control

- Sensorless Vector Control up to 120,000 RPM

### ○ Advanced Technology & Protection

- High Performance 32-bit Processor
- Enclosure Protection Class IP67
- High Voltage Interlock(HVIL)
- Improved Safety Protection  
Over Current, Over Load, DC Link Over Volt.,  
Short Protection, Over Temperature IGBT,  
Over Temperature Inside Inverter, etc...





## EV40-V3D Specifications

Input Voltage Range	250Vdc ~ 750Vdc (Max.800Vdc)
Output Voltage Range	170Vac ~ 500Vac
Rated Current	40Arms
Rated Power Capacity	22kVA
Max. Output Frequency / Speed	2,000Hz / 120,000 RPM
Control Voltage	9Vdc ~ 36Vdc
Efficiency	≥ 98.5% (@Rated Power Capacity)
Communication Interface	CAN 2.0
Cooling Water Temperature	-30°C ~ 70°C (Flow Rate ≥ 8lpm)
Ambient Temperature	-40°C ~ 85°C
Altitude	≤ 3000m
Enclosure Protection Class	IP67
Weight	10kg
Dimension(LxWxH)	300.7mm x 260.7mm x 120mm (Body)