

EV Drives

ENERGY Saving and Conversion

EV25-V2A

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 & Compact Size

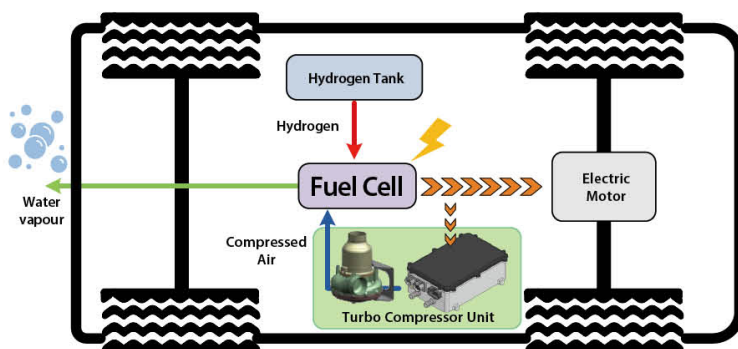
- Rated output capacity 13kVA
- Compact size and excellent performance

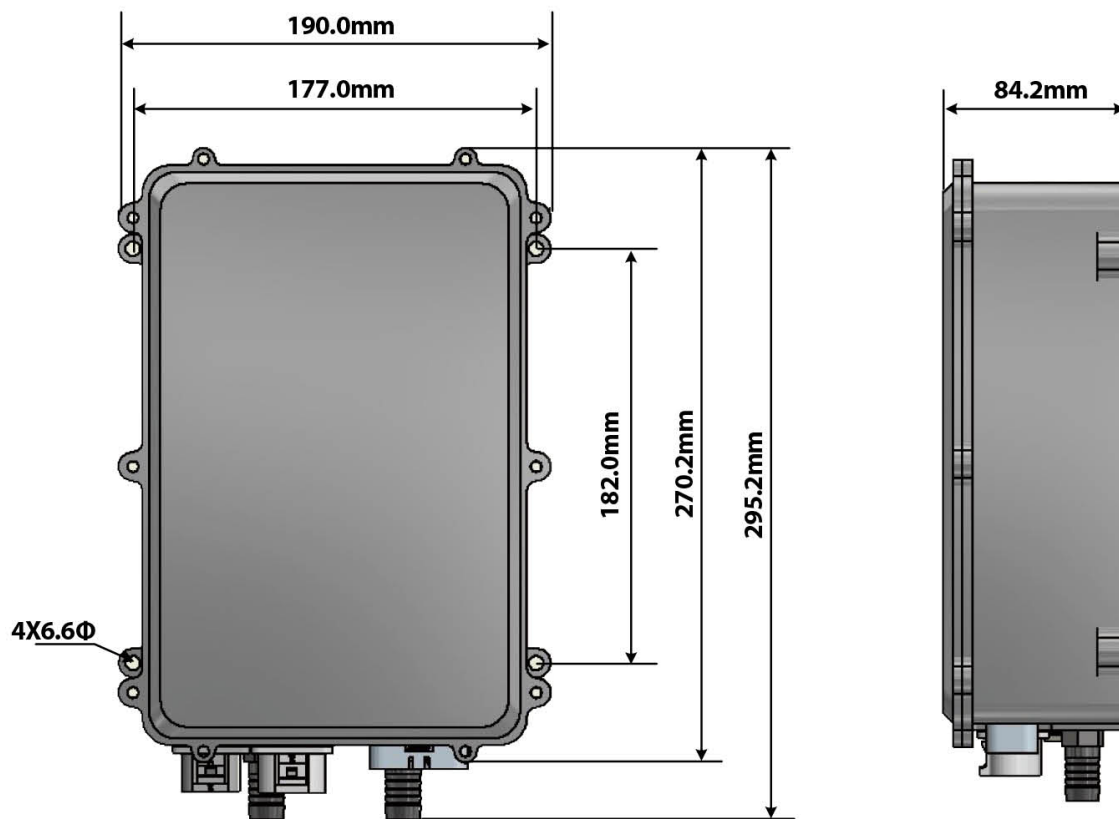
High Speed Vector Control

- 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...





EV25-V2A Specifications

Input Voltage Range	250Vdc ~ 750Vdc (Max.800Vdc)
Output Voltage Range	170Vac ~ 500Vac
Rated Current	25Arms
Rated Power Capacity	13kVA
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℃ ~ 70℃ (Flow Rate ≥ 8lpm)
Ambient Temperature	-40℃ ~ 85℃
Altitude	≤ 3000m
Enclosure Protection Class	IP67
Weight	6kg
Dimension(LxWxH)	270.2mm x 190.0mm x 84.2mm (Body)

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

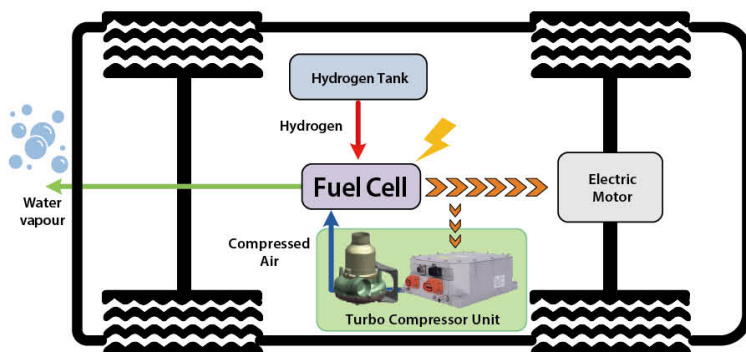
- Rated output capacity 22kVA

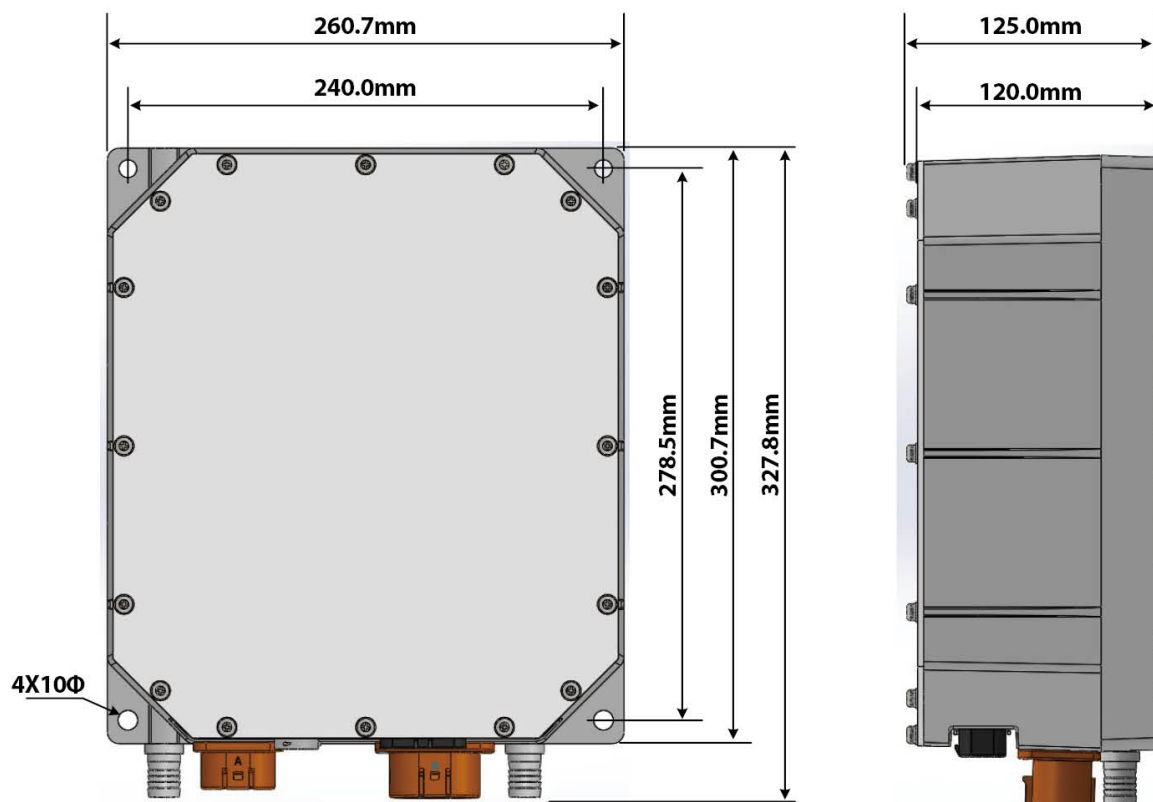
○ High Speed Vector Control

- 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)