



Digitized Automation for a Changing World

Delta Low Voltage Electric Vehicle Drive BTD Series



www.deltaww.com



Features

- **Outstanding Performance**
Supports Permanent Magnet Synchronous, Induction, and Hub motors with optimal control and high efficiency
- **Strong Drive Capability**
Continuous operation for 2 minutes under maximum current
- **Flexible Installation**
Compact design, smaller size compared with similar models, enhancing interior space utilization
- **Auto-Tuning**
Quick and precise motor parameter tuning without unloading the device from the vehicle. Compatible with various brands of AC motors
- **Reliability and Stability**
IP67 waterproof and dust-proof, PCB conformal coating
- **Complete International Certifications**
CE and UL certified

BTDH2 Series



BTDS1 Series



Specifications

Model		BTDS1 Series	BTDH2 Series
Motor Type		Induction motor (IM), Permanent magnet synchronous motor (PMSM), Hub motor	
Speed Feedback		A/B Incremental encoder, Hall Sensor, Sin-Cos	
Speed Feedback Voltage (V _{DC})		12	
Output	Carrier Frequency (kHz)	10	
Input	Rated Voltage (V _{DC})	24 / 48 / 80	48 / 80 / 96 / 144
Control Functions	Control Methods	Torque mode / Speed mode	
Operation Environment	Operation Temperature	-40°C ~ 40°C	-40°C ~ 50°C
	Storage Temperature	-40°C ~ 75°C	-40°C ~ 85°C
	Protection Rating	IP67	
Communication Port		CAN-Bus / Modbus	
Protection		Overcurrent protection, high / low-voltage protection, overheat protection, battery low-voltage warning, emergency stop output	
Certifications		CE, UL	
Dimensions (W x D x H, mm)		180.0 x 140.0 x 89.8	220.0 x 180.0 x 82.6
Weight		Net: 2.2 kg Gross: 2.6 kg	Net: 3.8 kg Gross: 4.2 kg

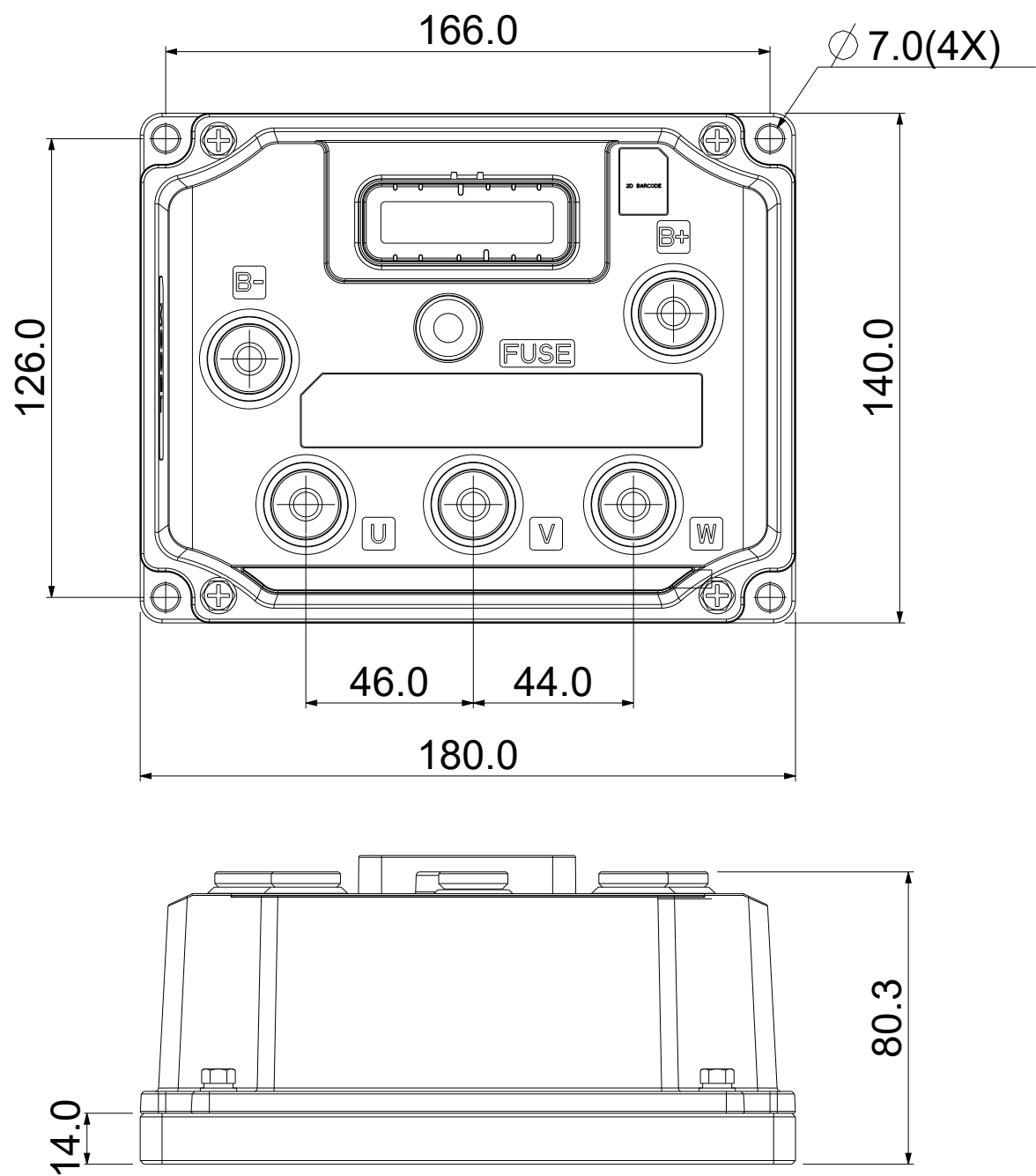
Model Chart

Model		Rated Voltage (V)	S2-60 Min RMS Rated Current (A)	2 Min Max. Current (A)*1
BTDS1 Series	BTDS10206PX	24	100	300
	BTDS10208PX	24	133	400
	BTDS10210PX	24	167	500
	BTDS10407PX	48	117	350
	BTDS10410PX	48	167	400 (500 A 1 min)
	BTDS10606PX	80	100	300
BTDH2 Series	BTDH20412PX	48	240	600
	BTDH20609PX	80	190	450
	BTDH20806PX	96	130	300
	BTDH21204PX	144	90	200

*1: The maximum current output condition is a bare unit without heatsink.

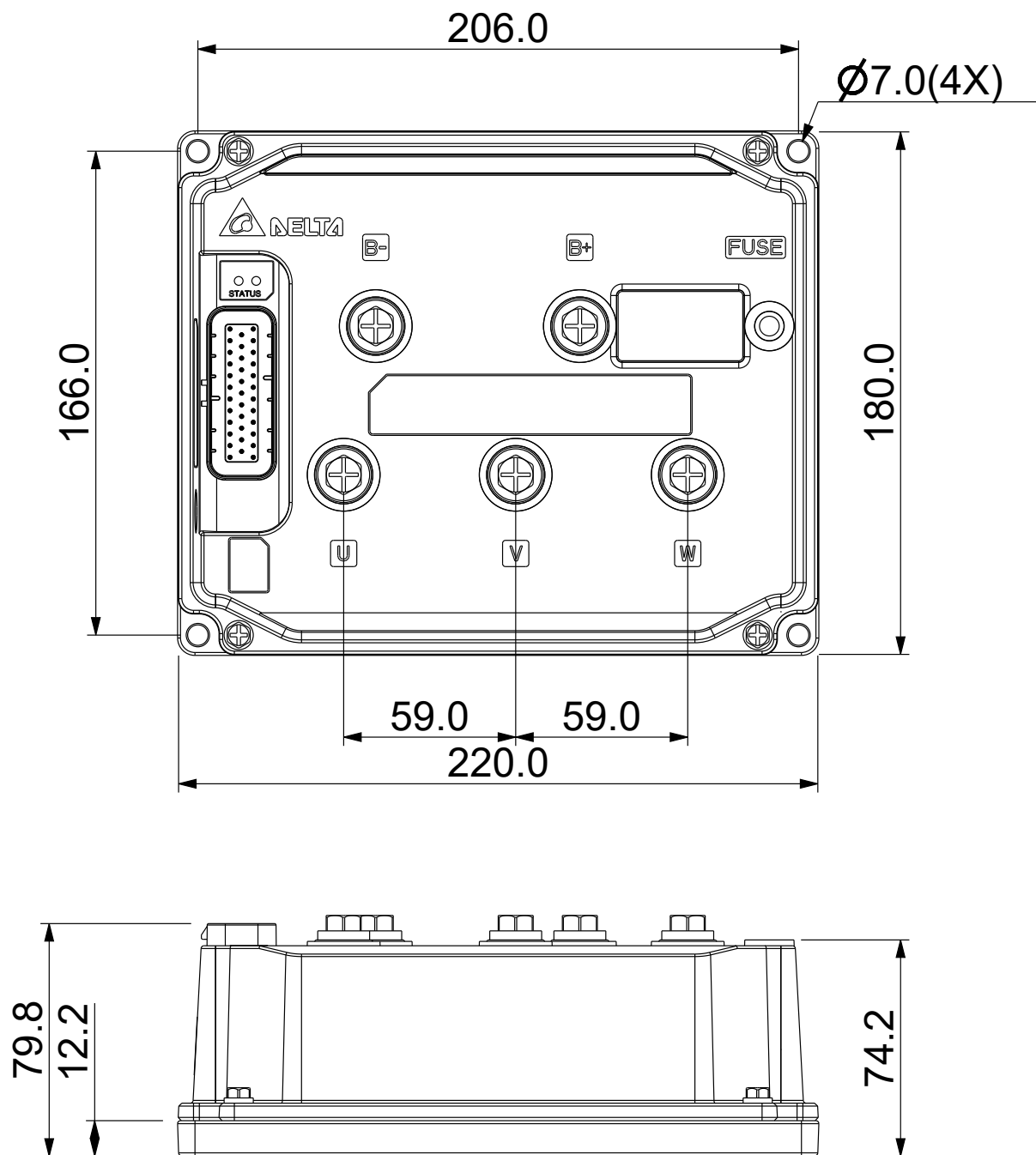
Dimensions

BTDS1



Unit: mm

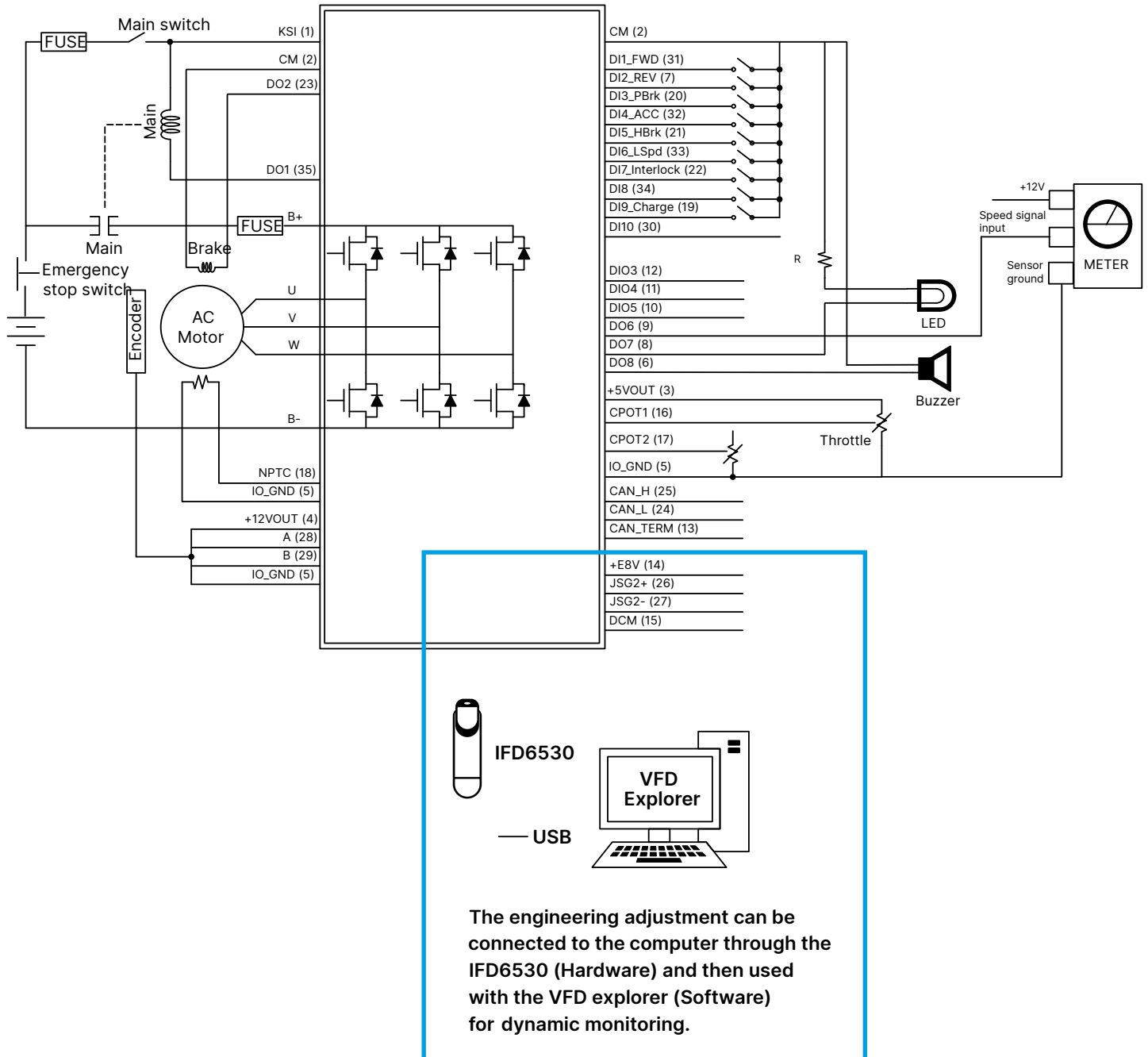
BTDH2



Unit: mm

Wiring

BTDS1/BTDH2





Smarter. Greener. Together.

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