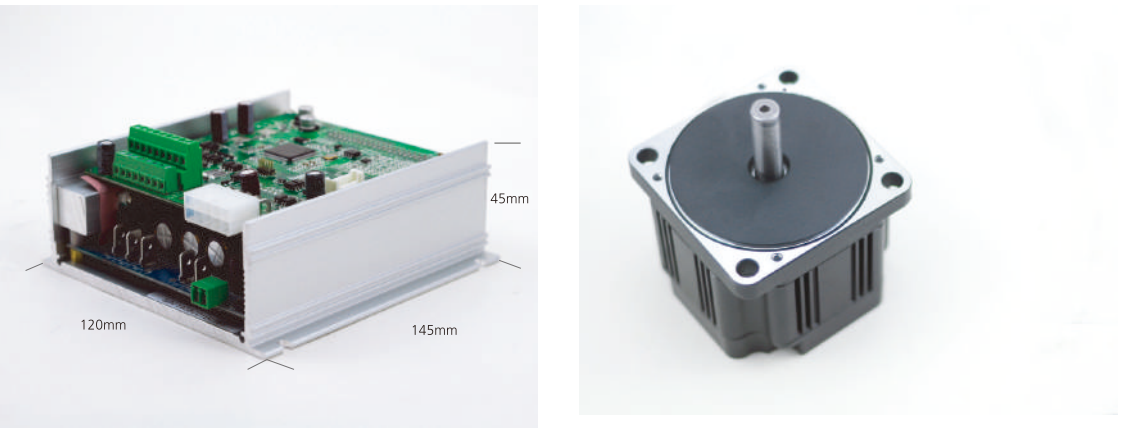
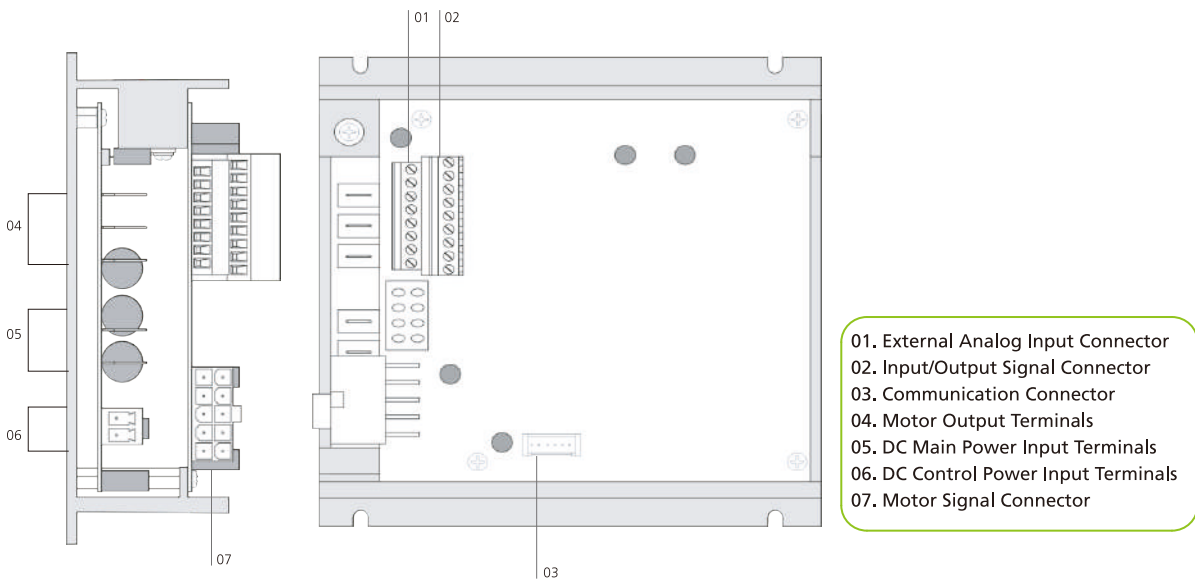


BHV Series DC Power Input, Output Power 120 ~ 500W

Motor Output Power	Motor Model	Driver Model	Rated Input Current (A)	Maximum Input Current (A)	Rated Torque (Nm)	Peak Torque (Nm)
DC24V±20%						
200W	BL90-K200-□□	BHV-K044	12.54	44	0.63	1.26
350W	BL90-K350-□□	BHV-K044	21.93	44	1.1	1.39
DC48V±20%						
200W	BL90-N200-□□	BHV-N044	6.27	44	0.63	1.26
350W	BL90-N350-□□	BHV-N044	10.97	44	1.1	2.2
400W	BLA4-N400-□□	BHV-N044	12.54	44	1.25	2.5
500W	BL90-N500-□□	BHV-N044	15.67	44	1.57	2.64

Names and Functions of Driver Parts



Variable Speed Range* ¹	120 ~ 3000 (4000) r/min	
Speed Regulation	Load	±0.1% max (0 ~ rated torque, rated speed, rated voltage, 25℃)
	Voltage	±0.1% max (voltage variation ±20%, no load, rated speed, 25℃)
	Temperature	±0.1% max (0 ~ 50℃, no load, rated speed, rated voltage)
Speed Control Method	2 Analog Setting* ²	
	■ External Analog Input1:	■ External Analog Input2:
	• Potentiometer(5kΩ or 20kΩ)	• Potentiometer(5kΩ or 20kΩ)
Pulse Input* ³	■ External DC Voltage(0~5VDC or 0~10VDC)	
	• Single-ended Throttle	
	• Wig Wag Throttle	
Acceleration Time* ⁴	■ Pulse Input Frequency(100 ~ 1000Hz)	
	■ Pulse Input Duty Cycle(20 ~ 80%)	
	0.1 ~ 10 sec (from 0~3000 r/min, no load) (1 Analog Setting / 2-step Digital Setting)	
Deceleration Time* ⁴	0.1 ~ 10 sec (from 3000~0 r/min, no load) (1 Analog Setting / 2-step Digital Setting)	
	■ 4 points. Input function can be setup by parameters. Activated by the photocoupler, input resistance 2.4kΩ.	
	■ Internal Power: 15VDC	
Input Signal* ⁵	■ External Power: 15 ~ 24VDC , 60mA	
	■ SINK or SOURCE connection.	
	1. [START/STOP (CW/STOP)] 10. M0	
Output Signal* ⁵	2. [CW/CW (CCW/STOP)] 13. E BRAKE	
	5. FREE 14. KEY SWITCH	
	6. [STOP MODE] 15. E FORWARD	
Brake	7. EBA RESET 16. E REVERSE	
	8. ALARM RESET	
	■ 3 points. Output function can be setup by parameters. Open Collector Output.	
Protect Function	1. [PULSE OUT] 8. POWER STATUS	
	2. [ALARM OUT] 9. STATUS	
	3. [BUSY OUT] 10. BATTERY GAUGE1	
Operating Environment	4. VA OUT 11. BATTERY GAUGE2	
	5. PARK BRAKE	
	6. DEC LIGHT	
Conditions	7. REVERSE LIGHT	
	Dynamic Brake (Battery Power Source only).	
	■ Over Voltage	
Dimension	■ Over Load	
	■ Excessive Speed	
	■ Under Voltage	
Other Functions	■ Driver Over Temperature	
	■ Feedback Signal Fault (Hall Signal Fault)	
	■ Over Current	
Ambient Temperature	■ Motor Over Temperature	
	■ EEP Data Error	
	-20℃ +50℃ (External cooling is required when the environment temperature is higher than 40℃)	
Humidity	< 85 % RH (non-condensing)	
	145mm * 120mm * 54mm	
	■ Incremental Encoder Interface (*Optional).	
Torque Limits	■ Throttle sensor setup.	
	■ Torque limits function.	

*1. The maximum speed is limit by the selected motor. It can be set to 3000 or 4000 r/min.
*2. The default setting of External analog input voltage is 0 ~ 5 VDC. It can be set to 0 ~ 10 VDC through parameter setting.
*3. X1 input is required to use the Pulse Input Speed Control Method.
*4. The acceleration and deceleration time of CW and CCW operation can be set separately.
*5. The function in brackets [] are default settings, more functions can be set through parameter setting.