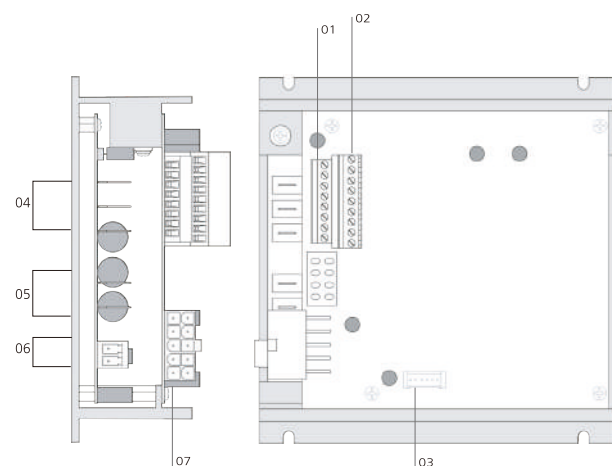




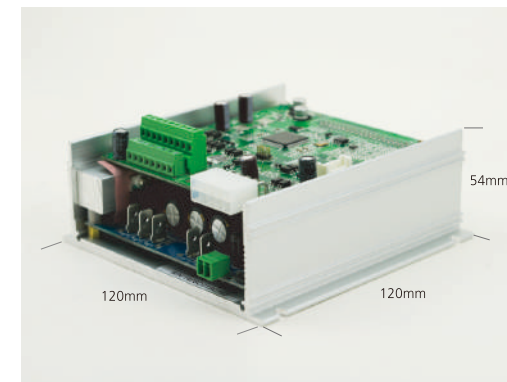
BH Series DC Power Input, Output Power 120 ~ 500W

Motor Output Power	Motor Model	Driver Model	Rated Input Current (A)	Maximum Input Current (A)	Rated Torque (Nm)	Peak Torque (Nm)	Permissible Load Inertia ($J \times 10^{-4} \text{ kg} \cdot \text{m}^2$)
DC24V $\pm$ 15%							
120W	BL60-K120-□□	BH-K120	7.52	15.04	0.38	0.76	1.64
150W	BL90-K150-□□	BH-K150	9.4	18.8	0.55	1.1	1.76
200W	BL90-K200-□□	BH-K200	12.54	25.08	0.63	1.26	1.77
DC48V $\pm$ 15%							
200W	BL90-N200-□□	BH-N200	6.27	12.54	0.63	1.26	1.77
350W	BL90-N350-□□	BH-N350	10.97	21.94	1.1	2.2	3.6
400W	BLA4-N400-□□	BH-N400	12.54	25.08	1.25	2.5	3.67
500W	BL90-N500-□□	BH-N500	15.67	26.33	1.57	2.64	3.74

Names and Functions of Driver Parts



- 01. External Analog Input Connector
- 02. Input/Output Signal Connector
- 03. Communication Connector
- 04. Motor Output Terminals
- 05. DC Main Power Input Terminals
- 06. DC Control Power Input Terminals
- 07. Motor Signal Connector



Variable Speed Range *1		150 ~ 3000 (4000) r/min	
Speed Regulation	Load	±0.2% max (0 ~rated torque, rated speed, rated voltage, 25°C)	
	Voltage	±0.2% max (voltage variaion±15%, no load, rated speed, 25°C)	
	Temperature	±0.2% max (0 ~ 50°C, no load, rated speed, rated voltage)	
Speed Control Method		■ External Analog Input1: • Potentiometer(5kΩ or 20kΩ) • External DC Voltage(0~5VDC or 0~10VDC)	■ External Analog Input2: • Potentiometer(5kΩ or 20kΩ) • External DC Voltage(0~5VDC or 0~10VDC)
		2 Analog Setting *2	
		8-step Digital Setting ■ Digital Input Indexing 3 bits (M0, M1, M2).	
		Pulse Input *3 ■ Pulse Input Frequency(100 ~ 1000Hz) ■ Pulse Input Duty Cycle(20 ~ 80%)	
Acceleration Time *4		0.1 ~ 10 sec (from 0~3000 r/min, no load) (1 analog setting / 8-step digital setting)	
Deceleration Time *4		0.1 ~ 10 sec (from 3000~0 r/min, no load) (1 analog setting / 8-step digital setting)	
Input Signal *5		■ 4 points. Input function can be setup by parameters. Activated by the photocoupler, input resistance 2.4kΩ.	1. [START/STOP (CW/STOP)] 2. [CW/CW (CCW/STOP)] 5. FREE 6. [STOP MODE] 7. EBA RESET
		■ Internal Power: 15VDC ■ External Power: 15 ~ 24VDC , 50mA ■ SINK or SOURCE connection.	8. ALARM RESET 10. [M0] 11. M1 12. M2 13. E BRAKE
Output Signal *5		■ 3 points. Output function can be setup by parameters. Open Collector Output.	1. [PULSE OUT] 2. [ALARM OUT] 3. [BUSY OUT] 4. VA OUT 5. PARK BRAKE
		■ External Power: 12 ~ 24VDC, 50mA max. ■ SINK or SOURCE connection.	
Brake		Dynamic Brake (Regeneration unit or battery power source required).	
Protect Function		■ Over Voltage ■ Under Voltage ■ Over Current	■ Over Load ■ Driver Over Temperature ■ Motor Over Temperature
		■ Feedback Signal Fault (Hall Signal Fault) ■ Excessive Speed ■ EEP Data ErrorEEP	
Operating Environment Conditions	Ambient Temperature	-20°C~50°C (External cooling is required when the environment temperature is higher than 40°C)	
	Humidity	< 85 % RH (non-condensing)	
Dimension		120mm * 120mm * 54mm	
Other Functions		■ Incremental Encoder Interface (*Optional).	
		■ Torque Limit 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 specification of analog setting of acceleration time and deceleration time is the same as the analog setting of speed control method.

*5. The function in brackets [] are default settings, more functions can be set through parameter setting.