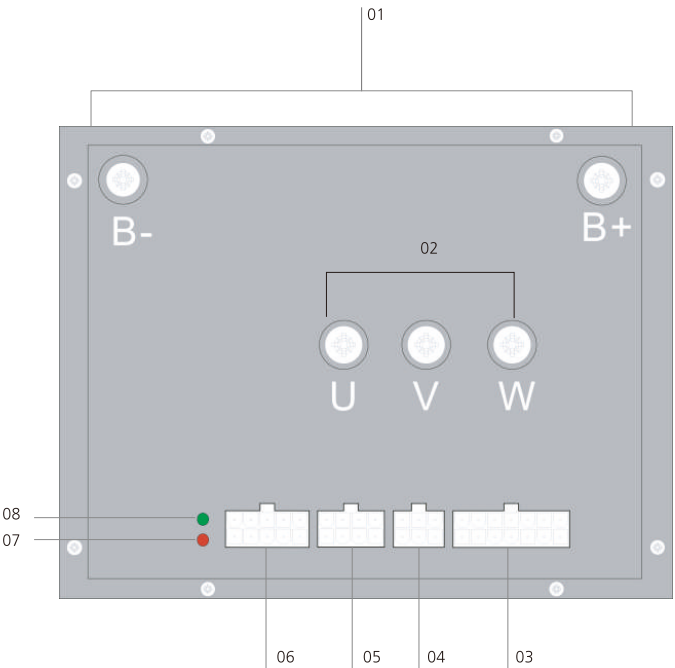


BV Series DC Power Input, Output Power 350 ~ 2000W

Motor Output Power	Motor Model	Driver Model	Rated Input Current (A)	Maximum Input Current (A)	Rated Torque (Nm)	Peak Torque (Nm)
DC24V±20%						
350W	BL90-K350-□□	BV-K120	21.93	120	1.1	1.98
750W	BLD0-K750-□□	BV-K120	47	120	2.33	3.5
1000W	BLD0-K1K0-□□	BV-K120	62.66	120	3.12	3.59
DC36V±20%						
350W	BL90-L350-□□	BV-L120	14.62	120	1.1	2.2
500W	BL90-L500-□□	BV-L120	20.89	120	1.57	3.14
750W	BLD0-L750-□□	BV-L120	31.33	120	2.33	4.66
1000W	BLD0-L1K0-□□	BV-L120	41.78	120	3.12	5.3
1500W	BLD0-L1K5-□□	BV-L120	62.66	120	4.68	5.38
DC48V±20%						
350W	BL90-N350-□□	BV-N120	10.97	120	1.1	2.75
500W	BL90-N500-□□	BV-N120	15.67	120	1.57	3.93
750W	BLA4-N750-□□	BV-N120	23.5	120	2.33	5.83
1000W	BLA4-N1K0-□□	BV-N120	31.33	120	3.12	7.02
1500W	BLD0~N1K5~□□	BV~N120	47	120	4.68	7.2

Names and Functions of Driver Parts



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

BV Series Specifications

Variable Speed Range *1		120 ~ 3000 (4000) r/min	
Speed	Load	±0.1% max (0 ~rated torque, rated speed, rated voltage, 25℃)	
	Voltage	±0.1%max (voltage variaion±20%, no load, rated speed, 25℃)	
Regulation	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)
		• External DC Voltage(0~5VDC or 0~10VDC)	• External DC Voltage(0~5VDC or 0~10VDC)
		• Single-ended Throttle	• Single-ended Throttle
		• Wig Wag Throttle	
Acceleration Time *3	0.1 ~ 10 sec (from 0~3000 r/min, no load) (1 Analog Setting / 2-step Digital Setting)		
Deceleration Time *3	0.1~ 10 sec (from 3000~0 r/min, no load) (1 Analog Setting / 2-step Digital Setting)		
Input Signal *4	■ 4 points, Input function can be set by parameters. TTL, input resistance 6.2kΩ.	1. [START/STOP(CW/STOP)]	10. M0
	■ External Power: 24~48VDC, 50mA	2. [CW/CW (CCW/STOP)]	13. E BRAKE
	■ SINK connection.	5. FREE	14. [KEY SWITCH]
	■ 1 point(X6), [KEYSWIYCH]. TTL, input resistance 300kΩ.	6. STOP MODE	15. E FORWARD
	■ Internal Power: 5VDC, 10mA	7. EBA RESET	16. [E REVERSE]
	■ SOURCE connection.	8. ALARM RESET	
Output Signal *4	■ 3 points, Output function can be set by parameters. Open Collector Output.	1. PULSE OUT	8. POWER STATUS
	■ External Power: 5 ~ 24VDC, 50mA max.	2. ALARM OUT	9. STATUS
	■ SINK connection.	3. [BUSY OUT]	10.[BATTERY GAUGE1]
	■ 2 points. [PARK BRAKE] Relay Output.	4. VA OUT	11.[BATTERY GAUGE2]
	■ External Power: 24~48VDC, 4A max.	5. PARK BRAKE	
		6. DEC LIGHT	
		7. REVERSE LIGHT	
Brake	Dynamic Brake (Battery Power Source only).		
Protect Function	■ Over Voltage	■ Over Load	■ Feedback Signal Fault (Hall Signal Fault)
	■ Under Voltage	■ Driver Over Temperature	■ Excessive Speed
	■ Over Current	■ Motor Over Temperature	■ EEP Data Error
Operating Environment Conditions	Ambient Temperature	-20℃ +50℃ (External cooling is required when the environment temperature is higher than 40℃)	
	Humidity	< 85 % RH (non-condensing)	
Dimension	240mm * 142mm * 78mm		
Other Functions	■ 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. The acceleration and deceleration time of CW and CCW operation can be set separately.
*4. The function in brackets [] are default settings, more functions can be set through parameter setting.