

□ Stepper Motor Drives

Product overview : adopts the latest special motor control DSP chip and optimized closed-loop control technology which can reduce the motor vibration, effectively reduce the motor heating, prolong the motor lifespan through the intelligent regulation of current.

The high speed torque attenuation is much lower than that of the ordinary open-loop driver, which can greatly improve the high speed performance and torque utilization rate of the stepper motor, thus improving the efficiency

Stepper Motor Drives

Drives Type	Article	Phase	Input Voltage Range	Current Range	Supported Motors	Dimensions	Features
Pulse Control Open-Loop	WO556S	2	24-50Vdc	Peak Current 5.6A	57/60mm	86*55*26	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Pulse Control Open-Loop	WO556	2	24-50Vdc	Peak Current 5.6A	57/60mm	116*69.2*26.5	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Pulse Control Open-Loop	WO572	2	24-50Vdc	Peak Current 7.2A	57/60/86mm	116*69.2*26.5	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Pulse Control Open-Loop	WEO556	2	24-50Vdc	Peak Current 5.6A	57/60mm	116*69.2*26.5	Pulse, Direction, Enable differential signal input
Pulse Control Open-Loop	WO872A	2	18-80Vac	Peak Current 7.2A	86-110mm	151*97*48	Pulse, Direction, Enable differential signal input
Pulse Control Open-Loop	WEO872A	2	18-80Vac	Peak Current 7.2A	86-110mm	151*97*48	Pulse, Direction, Enable differential signal input
Pulse Control Closed-Loop	WC42	2	24-50Vdc	Peak Current 2A	14~42mm	116*69.2*26.5	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Pulse Control Closed-Loop	WC57	2	24-50Vdc	Peak Current 5A	57/60mm	116*69.2*26.5	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Pulse Control Closed-Loop	WC86	2	18-80Vac	RMS Current 6A	86-110mm	151*97*48	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
BUS Control Open-Loop	WO556-R	2	24-50Vdc	Peak Current 5.6A	42/57/60mm	116*69.2*26.5	5 input I/O and 3 output I/O
BUS Control Closed-Loop	WC42-R	2	24-50Vdc	RMS Current 2A	42mm	136*82.5*30	5 input I/O and 3 output I/O
BUS Control Closed-Loop	WC57-R	2	24-50Vdc	RMS Current 5A	57/60mm	136*82.5*30	5 input I/O and 3 output I/O
Integrated Motor Drives	WIO42	2	18-40Vdc	Peak Current 3A	42mm	Available with 42 motors	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Integrated Motor Drives	WIO57	2	18-40Vdc	Peak Current 5A	57mm	Available with 57 motors	Pulse, Direction, Enable differential signal input Alarm, PEND Signal
Integrated Motor Drives	WIC42	2	18-40Vdc	RMS Current 2A	42mm	Available with 42 motors	Pulse, Direction, Enable differential signal input
Integrated Motor Drives	WIC57	2	18-40Vdc	RMS Current 5A	57mm	Available with 57 motors	Pulse, Direction, Enable differential signal input

WO556S

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

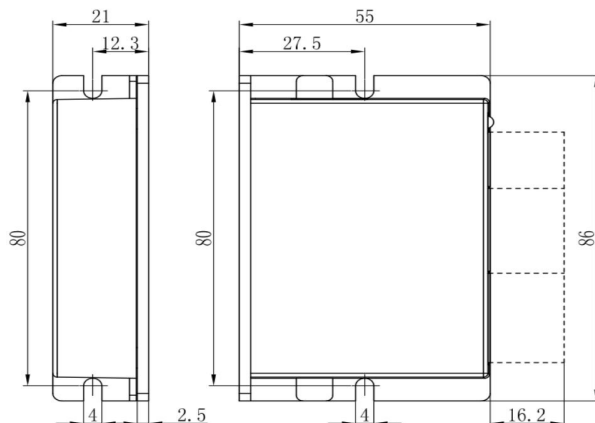
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WO556

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medium and small automation machines and equipment.

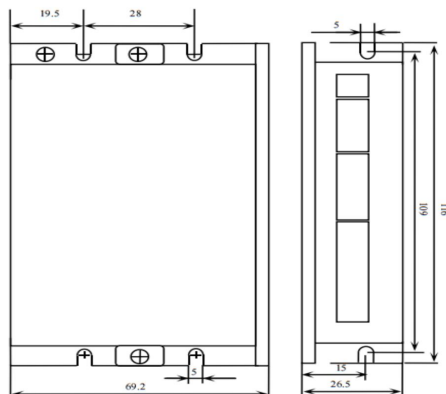
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WO572

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

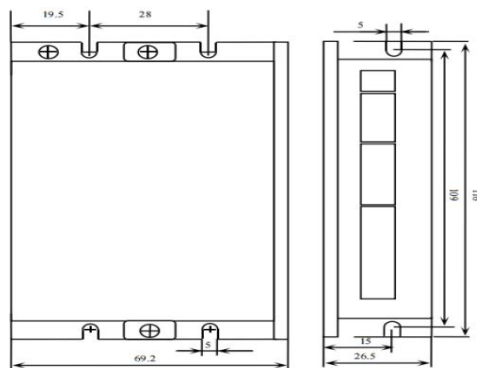
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC	18- 50 VDC	18-80 VAC	18- 40 VDC	24- 50 VDC	24- 50VDC	18-80VAC			
Output Current	RMS 2A	RMS 5A	RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A	PEAK 7.2A			
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg	0.2 kg	0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WEO556

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

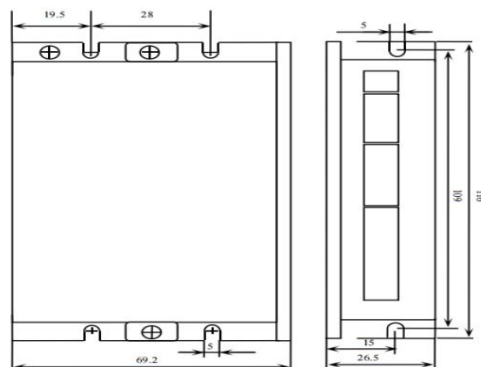
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WO872A

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

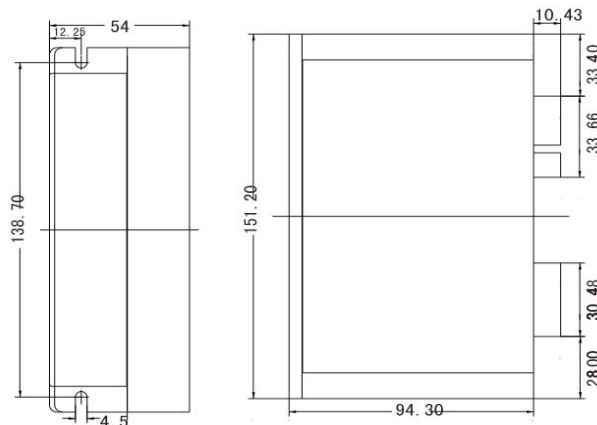
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WEO872A

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

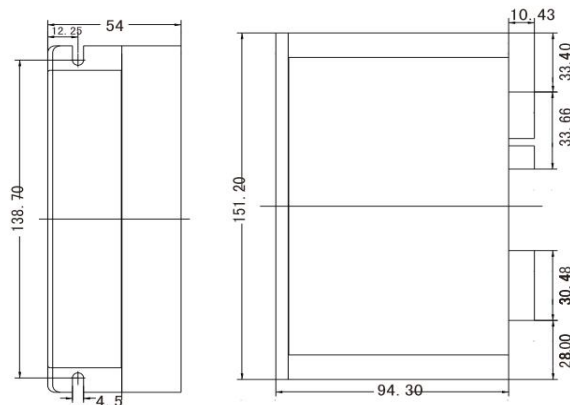
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WC42

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock ,effectively reduce the motor heating
- Common-cathode connection method of output signal,alarm, pend signal, Z signal,brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

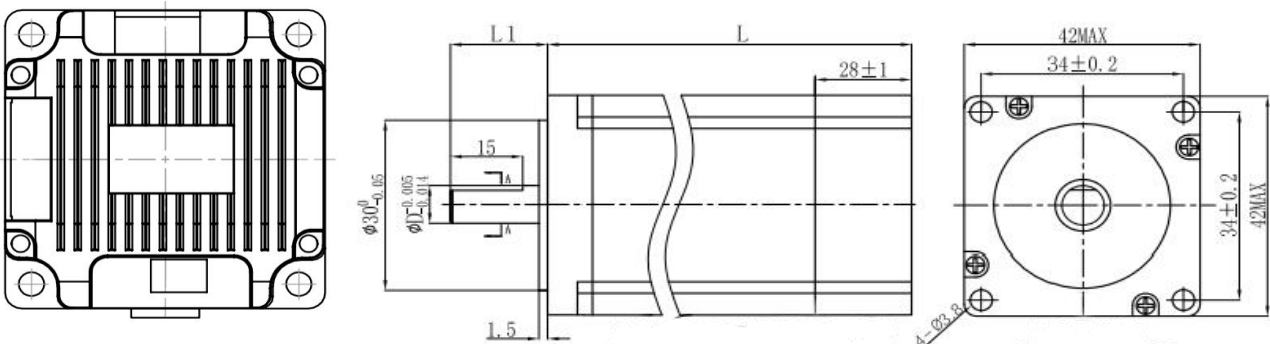
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WC57

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

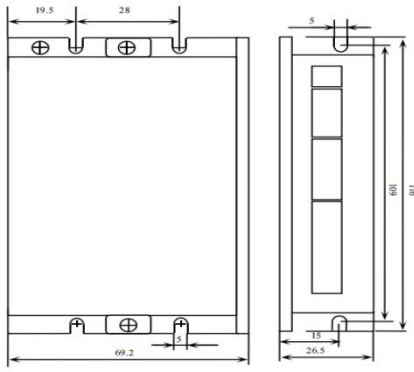
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC	18- 50 VDC	18-80 VAC	18- 40 VDC	24- 50 VDC	24- 50VDC	18-80VAC			
Output Current	RMS 2A	RMS 5A	RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A	PEAK 7.2A			
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg	0.2 kg	0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WC86

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

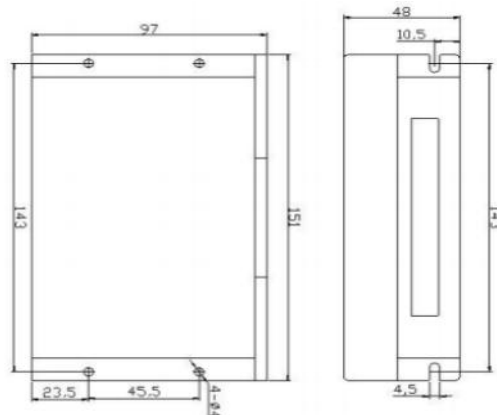
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC	18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC	
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WO556-R

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

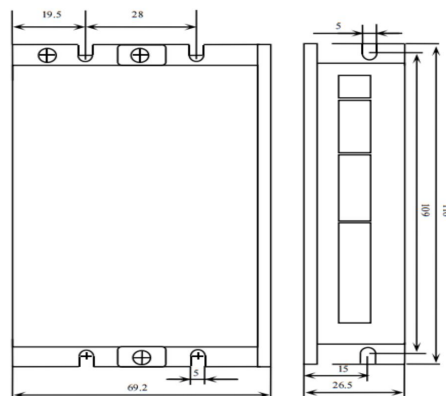
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC	18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC	
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WC42-R

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

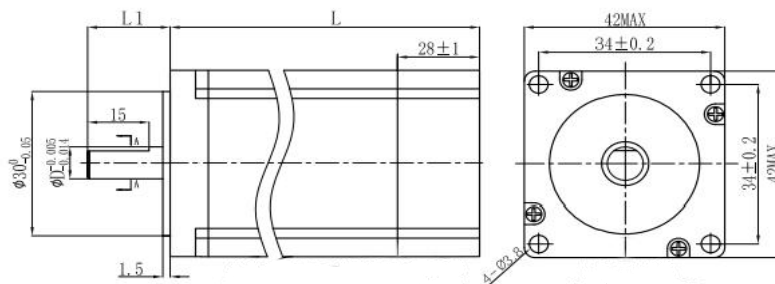
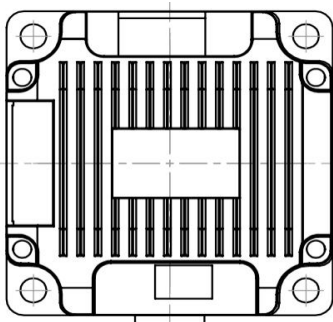
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WC57-R

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

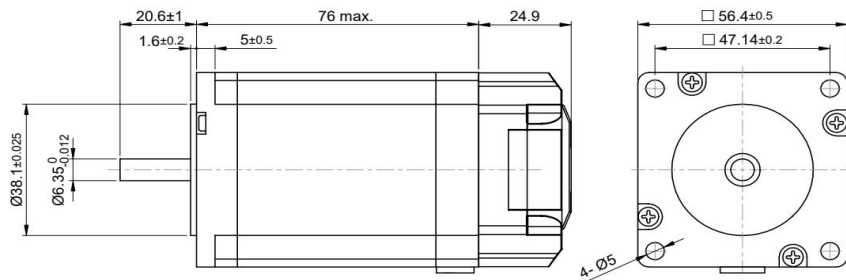
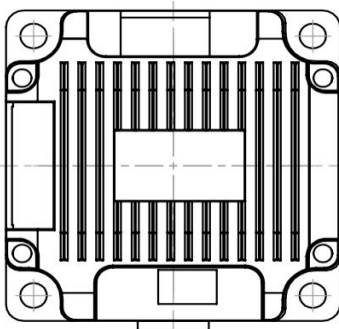
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WIO42

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

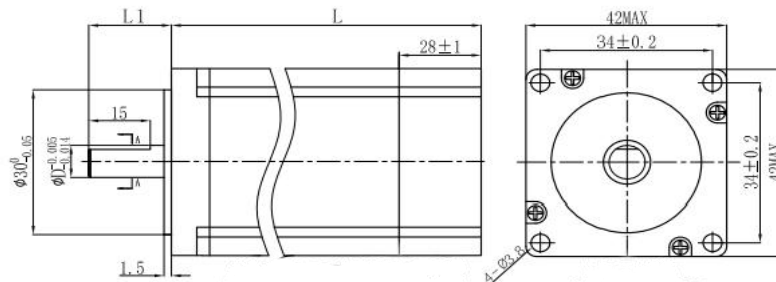
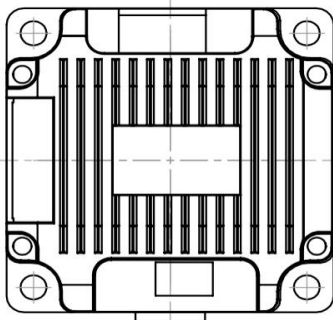
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WIO57

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

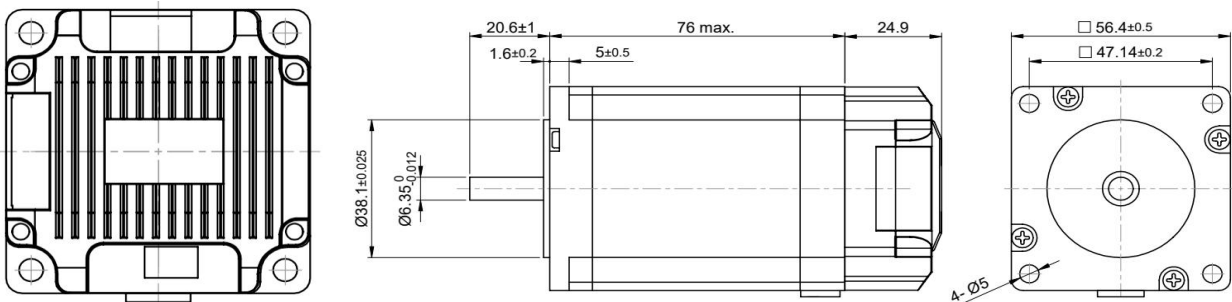
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WIC42

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over - voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

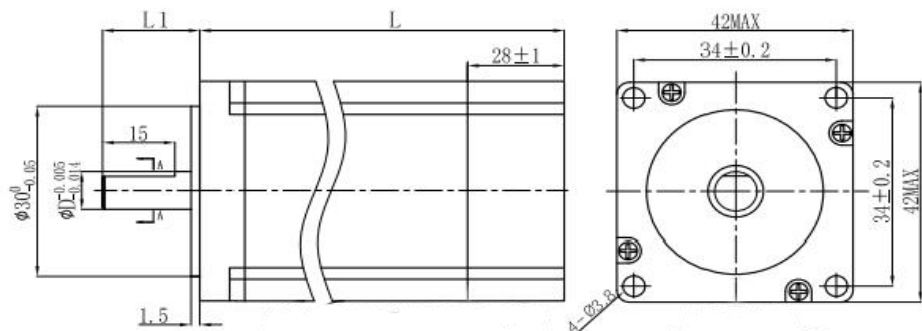
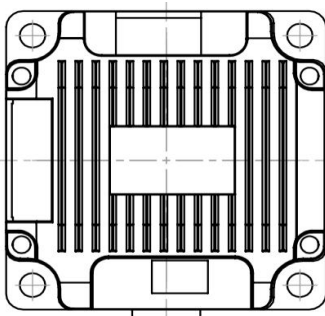
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



WIC57

Stepper Motor Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

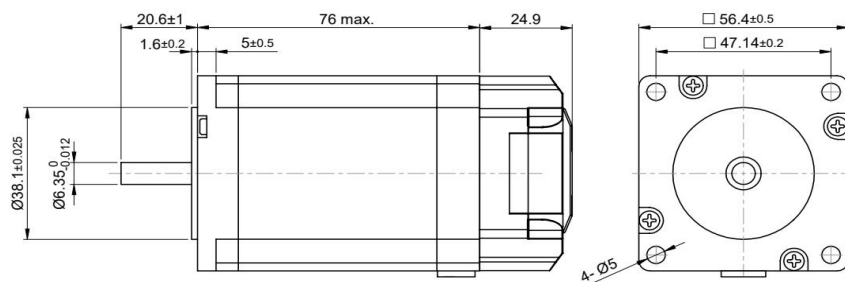
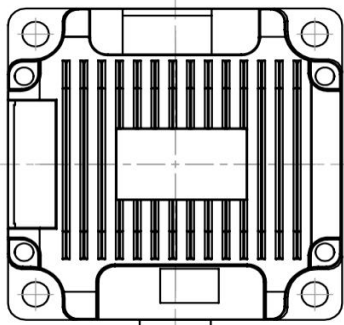
Specifications

Model Names	WC42-R	WC42	WC57-R	WC57	WC86	WIO42	WIO57	WO556-R	WO556S	WO572
		WIC42		WIC57					WO556	WO872A
									WEO556	WEO872A

Parameter

Phase	2									
Supply Voltage	18-50 VDC		18- 50 VDC		18-80 VAC	18- 40 VDC		24- 50 VDC		24- 50VDC 18-80VAC
Output Current	RMS 2A		RMS 5A		RMS 6A	PEAK 3A	PEAK 5A	PEAK 5.6A		PEAK 7.2A
Communication	RS485	/	RS485	/	/	/	/	RS485	/	/
Control Methods	--	Pulse Mode	--	Pulse Mode	--	Pulse Mode	--	--	Pulse Mode	Pulse Mode
Input-signal voltage	5-24V									
Pulse Frequency (kHz)	200K									
Digital Inputs	5		5					5		
Digital Outputs	3		3					3		
Encoder Feedback	Yes	Yes	Yes	Yes	Yes	/	/	/	/	/
Operating Temp.	-20 to 50 C°									
Weight	0.01 kg		0.2 kg		0.6 kg	0.01 kg	0.2 kg	0.2 kg	0.2 kg	0.6 kg

DIMENSIONS (IN MM)



□ Brushless DC Drives

Product overview :Brushless DC Drive is applied to the speed control of brushless DC hall motor. Its biggest advantage is that it can always control the motor to maintain the maximum torque at low speed. In addition, this product has advantages of diversified speed adjustment mode, wide speed adjustment range, complete functions, hardware and software full protection, etc.

Diversified speed adjustment mode: provide potentiometer speed control, voltage speed control, external PWM speed control, CAN speed control, etc.

Wide speed adjustment range: support speed adjustment within the range of 200~20000 rpm(Two-pole motor);

Complete functions: with functions of enable, positive and negative turning, braking, motor speed signal output, alarm output, etc.

Hardware and software full protection: with functions of blocking protection, over-voltage protection, under-voltage protection, over-current protection, over-temperature protection, the hall signal fault alarm, etc.

BLDC Motor Drives							
Drives Serie	Article	phase	Input Voltage Range	Current Range	Supported Motors	Dimensions	Features
BLDC Drives with hall sensor	WBL2403	2	15-40Vdc	RMS Current 3 A (Max)	Motors with current \leq 3A	86*55*20	Analog, with functions of enable,braking input, alarm and FG output etc.
BLDC Drives with hall sensor	WBL4805	2	18-60Vdc	RMS Current 5 A (Max)	Motors with current \leq 5A	116*69.2*26.5	Analog, with functions of enable,braking input, alarm and FG output etc.alarm and FG output etc.
BLDC Drives with hall sensor	WBL4810	2	18-60Vdc	RMS Current 10A (Max)	Motors with current \leq 10A	136*82.5*30	Analog, with functions of enable,braking input, alarm and FG output etc.
BLDC Drives with hall sensor	WBL4820	2	18-60Vdc	RMS Current 20A (Max)	Motors with current \leq 20A	151*97*48	Analog, with functions of enable,braking input, alarm and FG output etc.alarm and FG output etc.
BLDC Drives with hall sensor	WBL4805-R	2	18-60Vdc	RMS Current 5 A (Max)	Motors with current \leq 5A	116*69.2*26.5	Analog, with functions of enable,braking input, alarm and FG output etc.
BLDC Drives with hall sensor	WBL4810-R	2	18-60Vdc	RMS Current 10A (Max)	Motors with current \leq 10A	136*82.5*30	Analog, with functions of enable,braking input, alarm and FG output etc.alarm and FG output etc.
BLDC Drives with hall sensor	WBL4820-R	2	18-60Vdc	RMS Current 20A (Max)	Motors with current \leq 20A	151*97*48	Analog, with functions of enable,braking input, alarm and FG output etc.

WBL2403

Brushless DC Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

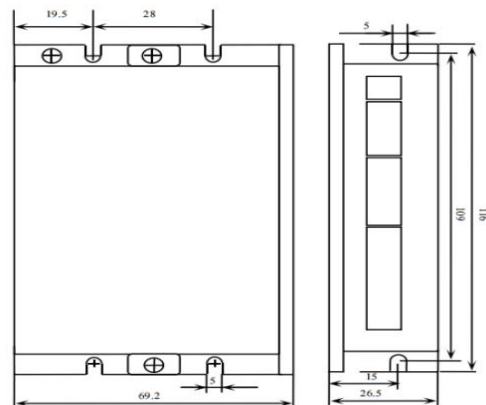
Specifications

Model Names	WBL2403	WBL4805	WBL4805-R	WBL4810	WBL4810-R	WBL4820	WBL4820-R

Parameter

Input Voltage	15- 40 VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC
Continuous Outputs Current	3A	5A	5A	10A	10A	20A	20A
Short-time Outputs Current	4.5A	7.5A	7.5A	15A	15A	30A	30A
Communication	/	/	RS485	/	RS485	/	RS485
Control Methods	Analog Control						
Input-signal voltage	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
Digital Inputs	4	4	4	4	4	4	4
Digital Outputs	2	2	2	2	2	2	2
Hall Sensors	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temp.	-20 to 50 C°						
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg

DIMENSIONS (IN MM)



WBL4805

Brushless DC Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

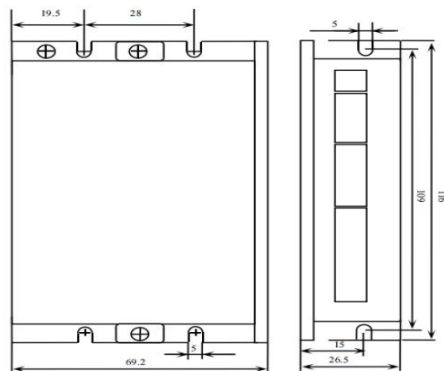
Specifications

Model Names	WBL2403	WBL4805	WBL4805-R	WBL4810	WBL4810-R	WBL4820	WBL4820-R

Parameter

Input Voltage	15- 40 VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC
Continuous Outputs Current	3A	5A	5A	10A	10A	20A	20A
Short-time Outputs Current	4.5A	7.5A	7.5A	15A	15A	30A	30A
Communication	/	/	RS485	/	RS485	/	RS485
Control Methods	Analog Control						
Input-signal voltage	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
Digital Inputs	4	4	4	4	4	4	4
Digital Outputs	2	2	2	2	2	2	2
Hall Sensors	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temp.	-20 to 50 C°						
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg

DIMENSIONS (IN MM)



WBL4805-R

Brushless DC Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

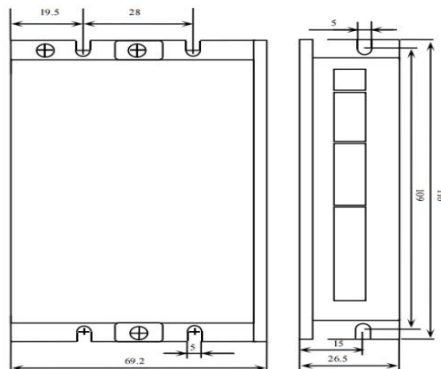
Specifications

Model Names	WBL2403	WBL4805	WBL4805-R	WBL4810	WBL4810-R	WBL4820	WBL4820-R

Parameter

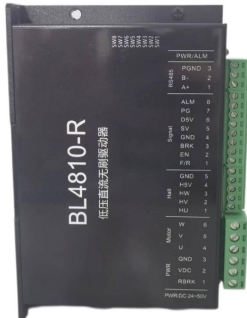
Input Voltage	15- 40 VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC
Continuous Outputs Current	3A	5A	5A	10A	10A	20A	20A
Short-time Outputs Current	4.5A	7.5A	7.5A	15A	15A	30A	30A
Communication	/	/	RS485	/	RS485	/	RS485
Control Methods	Analog Control						
Input-signal voltage	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
Digital Inputs	4	4	4	4	4	4	4
Digital Outputs	2	2	2	2	2	2	2
Hall Sensors	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temp.	-20 to 50 C°						
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg

DIMENSIONS (IN MM)



WBL4810-R

Brushless DC Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

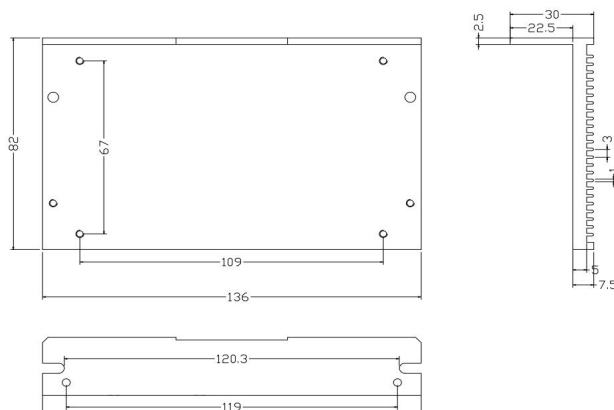
Specifications

Model Names	WBL2403	WBL4805	WBL4805-R	WBL4810	WBL4810-R	WBL4820	WBL4820-R

Parameter

Input Voltage	15- 40 VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC
Continuous Outputs Current	3A	5A	5A	10A	10A	20A	20A
Short-time Outputs Current	4.5A	7.5A	7.5A	15A	15A	30A	30A
Communication	/	/	RS485	/	RS485	/	RS485
Control Methods	Analog Control						
Input-signal voltage	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
Digital Inputs	4	4	4	4	4	4	4
Digital Outputs	2	2	2	2	2	2	2
Hall Sensors	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temp.	-20 to 50 C°						
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg

DIMENSIONS (IN MM)



WBL4820

Brushless DC Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

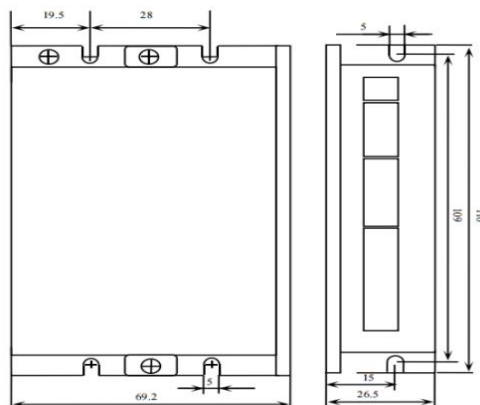
Specifications

Model Names	WBL2403	WBL4805	WBL4805-R	WBL4810	WBL4810-R	WBL4820	WBL4820-R

Parameter

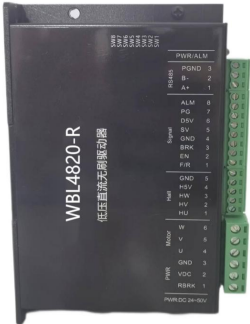
Input Voltage	15- 40 VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC
Continuous Outputs Current	3A	5A	5A	10A	20A
Short-time Outputs Current	4.5A	7.5A	7.5A	15A	30A
Communication	/	/	RS485	/	RS485
Control Methods	Analog Control				
Input-signal voltage	0-5V	0-5V	0-5V	0-5V	0-5V
Digital Inputs	4	4	4	4	4
Digital Outputs	2	2	2	2	2
Hall Sensors	Yes	Yes	Yes	Yes	Yes
Operating Temp.	-20 to 50 C°				
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg

DIMENSIONS (IN MM)



WBL4820-R

Brushless DC Drives



- Input signal light-coupled isolation, compatible with 5V~24V
- Pulse, Direction, Enable differential signal input, giving consideration to differential, common-anode and common-cathode connection method
- Maximum pulse response frequency up to 500KHz
- Automatic half-current lock, effectively reduce the motor heating
- Common-cathode connection method of output signal, alarm, pend signal, Z signal, brake control.
- With protection functions from over-voltage, under-voltage, over-current and position following error.
- Hold the function of loop parameter self-tuning
- Performance: smooth motion, super-low motor noise, small overshoot, small position following error.

* Application in medical and laboratory equipment and industrial machinery

Specifications

Model Names	WBL2403	WBL4805	WBL4805-R	WBL4810	WBL4810-R	WBL4820	WBL4820-R

Parameter

Input Voltage	15- 40 VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC	18- 60VDC
Continuous Outputs Current	3A	5A	5A	10A	10A	20A	20A
Short-time Outputs Current	4.5A	7.5A	7.5A	15A	15A	30A	30A
Communication	/	/	RS485	/	RS485	/	RS485
Control Methods	Analog Control						
Input-signal voltage	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V	0-5V
Digital Inputs	4	4	4	4	4	4	4
Digital Outputs	2	2	2	2	2	2	2
Hall Sensors	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temp.	-20 to 50 C°						
Weight	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg	0.3 kg

DIMENSIONS (IN MM)

