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## 48v 4.5kw 1500rpm BLDC Motor

Model Number:	VOL-BL450A48
Type:	Brushless DC Motor
Output Power:	6HP(4.5kw)
DC Voltage:	48v
Speed Range:	1500 RPM
Poles:	2P

Detailed information	
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Brand Name:	Volcano Electric	Model Number:	VOL-BL450A48	Type:	Brushless DC Motor
Output Power:	6HP(4.5kw)	DC Voltage:	48v	Speed Range:	1500 RPM
Controller:	Customized, Optional	Construction:	Permanent magnet	Insulation Class:	Class F
Commutation:	Brushless	Encoder:	hall sensor	Protect Feature:	Waterproof
Enclosure:	IP54	Poles:	2P	Wire:	100% copper
Housing:	Aluminum Frame	Efficiency:	IE3	Certification	CE, ROHS, UL
Duty:	S1	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC standard or NEMA standard
Application:	Industrial machinery, Rickshaw, Boat(propeller), Car, Traction Motor, Pump, Other				

### Product Description

48v 4.5kw 1500rpm BLDC motor is a DC motor with hall sensor. We used IEC standard aluminum frame, also if you need to change the size, we can according your request to do it. The protection feature of waterproof makes it suit to use for boat propeller. At the same time, the groove design facilitates the heat generated during the running. In addition, it's beneficial to decrease the operation temperature by water cooling or other cooling ways.

Except our normal motor parts, we also can according customers' requirement to make. Like the encoder, the size of shaft, add brake and so on.

### Why you choose Brushless DC Motor

Brushless dc motor has the brushes dc motor' s characteristics, but the most obvious difference is lack of brushes and commutator than the brushes dc motor.

- 1.Low electromagnetic influence, low noise. Brushless dc motor has no brush, the friction is greatly reduced in running and reduced the spark radio interference.
- 2.High efficiency Brushless dc motor has its self-control and the rotor operates in any case that the system efficiency is up to 90%.
- 3.No spark, smooth operation. Brushless dc motor has no brushes, the friction is reduced when working and smooth operation.
- 4.long life, low maintenance cost. BLDC don' t have the brushes which will wear out or break and need to be replaced. This point make the BLDC have much longer service life and save your money.

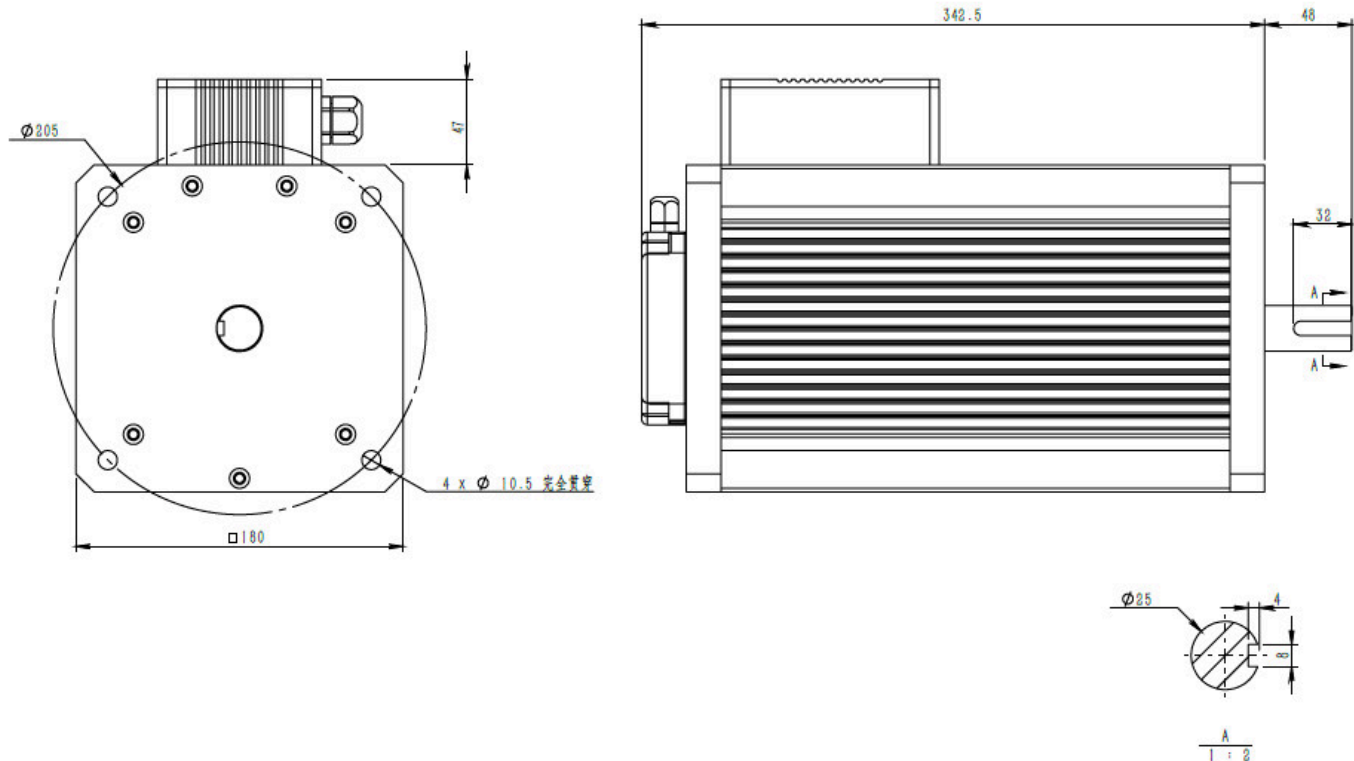
### Why Choose Us

- 1.Strong technical support. We have a professional technical team lead by Mr. Charles who has more than 30 years experience of motor design.
- 2.Quality assurance. Before ship the goods out, we will test it when the production is finished. To prevent no mistakes.
- 3.Sales to world. We will take part in several exhibitions. The customers are from UK, Netherland, USA, India and so on.

### Configuration

Dimensions:

(Unit=mm)



**\*CAN MAKE ACCORDING TO YOUR REQUIRMENT**

### Brushless motor list

Electric motor parameter of brushless dc motor

Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
VOL-BL300C48	3.0	48	67.6	2650	10.81	6	92.5	61
VOL-BL300B72	3.0	72	46.8	3000	9.55	6	89	61

VOL-BL350C60	3.5	60	69.5	1680	19.9	6	84	61
VOL-BL370C60	3.7	60	73.41	3600	9.82	6	84	61
VOL-BL400C48	4.0	48	90.6	2580	14.81	6	92	62
VOL-BL450A48	4.5	48	99.73	1500	28.65	2	94	62
VOL-BL450A72	4.5	72	67.93	1500	28.65	6	92	62
VOL-BL450B220	4.5	220	12.84	3000	14.33	6	92	62
VOL-BL500C72	5.0	72	75.48	3600	13.26	6	92	62
VOL-BL550C72	5.5	72	85.6	3680	14.27	6	89.2	63

#### Advantages of Brushless DC motor:

- Lower Maintainance and longer lifetime - no brush and commutator erosion
- Lower noise - the elimination of brush contact
- Higher power to weight ratio
- Higher efficiency ( in general higher than 90%)
- Lower temperature rise-more efficient heat dissipation due to winding construction

For customized DC Motors, please contact our technician, Ordinary, we have to know the following information to get a professional proposal:


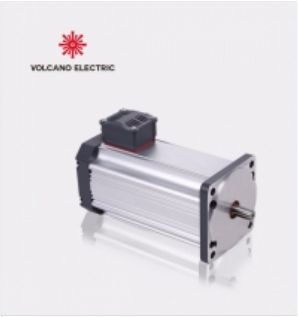


- **Brushed or Brushless** Customer preference
- **Output power (W)** Horsepower/watts/torque rated at full load speed
- **Voltage (V)** i.e 12v DC ..... 220v AC
- **Motor speed (RPM)** Revolutions per minute of the shaft at full load Voltage
- **Application** e.g. traction, airconditioning, etc.
- **Duty** Most motors are rated continuous. Some applications however may use motors designed for intermittent duty
- **Configuration/Frame** Our products are according to IEC standard, we also can customize the flange and shaft according to the customer drawing
- **Controller function** e.g. forward/reverse, variable speed, acceleration profile, etc.

Previous 12v 600w 1800rpm Brushless Dc Motor With Hall Sensors

Next High efficiency 1000w 110v 1500rpm Brushless DC Motor

You may like:

				
72V 5500W 3680rpm Brushless Electric Motor With Controller	251mm 72V 4KW Hall Sensor BLDC Motor With Controller	251mm 48V 4000W 2580rpm Hall Sensor With Controller BLDC Motor	48V 4100W High Power NEMA Frame BLDC Motor	Customized 4.5kw 72v 1500rpm Brushless Dc Motor

			
6hp 3000rpm Powerful Brushless Dc Motor	5kw 72v Brushless Dc Motor With Hall Sensor	5.5HP 48V High Power Brushless DC Motors	5500W High Power High RPM BLDC Motors

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