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

Model Number:	VOL-BL06C12
Type:	Brushless DC Motor
Output Power:	600W
DC Voltage:	12V
Speed Range:	1800 RPM
Poles:	4P

Detailed information	
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Brand Name:	Volcano Electric	Model Number:	VOL-BL0.4A12	Type:	Brushless DC Motor
Output Power:	600W	DC Voltage:	12V	Speed Range:	1800 RPM
Controller:	Customized, Optional	Braker:	Optional	Insulation Class:	Class F
Enclosure:	IP54	Poles:	4P	Wire:	100% copper Coil
Current:	58.82A	Sensor:	Hall sensor, Optional	Certification:	CE,UL,ROHS
Housing:	Aluminum frame	Efficiency:	85%		
Duty:	S1 (continuous)	Place of Origin:	Zhejiang, China (Mainland)	Standard:	IEC / Custom
Application:	Boat, Car, Sightseeing cars, Home Appliance, Oil Pump, Vehicle, Other				

Product Description

Brushless dc motor, also know as BLDC motor or PMDC motor(the permanent magnet dc motor). It can provide much more efficiency than the other traditional dc motor. At the best operation situation, our BLDC motor can up to 90%. At the market, 80% is the most have. About the size, we try to put the power into the smaller size so you can have more space to install. Use the IEC standard frame, easy for you to fit the machine or other parts.

Cooling system. To increase the contact area, there will be some grooves on the motor case. You can use the water cooling or the air cooling.

We insist that quality and honesty come first. Waiting for you and feel free to contact our team at info@volcanomotor.com for any technical support.

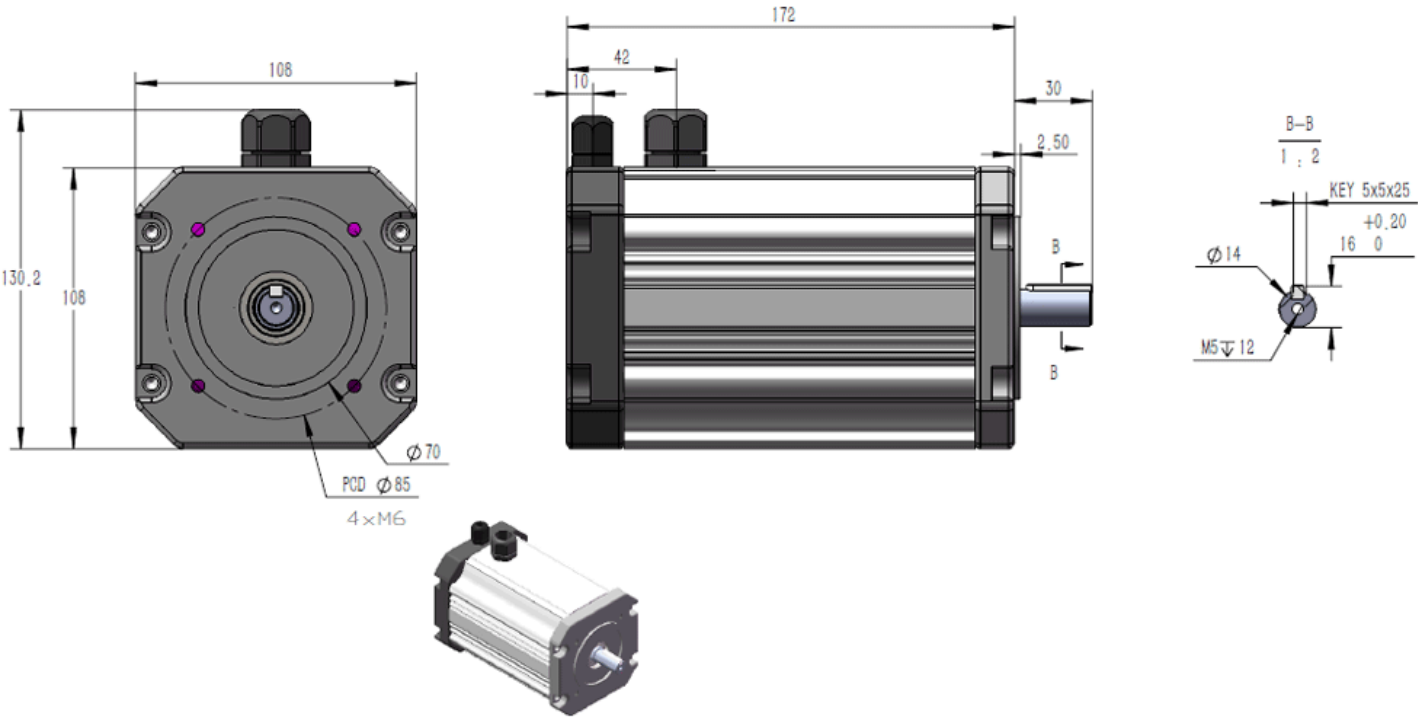
Motor construction

Brushless dc motor also have the stator and rotor same like the common dc motor, but it cancel the brushes. The stator used by silicon steel sheet and the rotor make by permanent magnet. It can be 2 poles to 8 poles just as you wish. Different with the brushes dc motor, the commutation of the BLDC motor is electronically controlled. We will use the hall sensors to do it. Also can use the magnetic encoder.

Motor construction

Motor type	VOL-BL06C12
Rated power	600W
Rated speed	1800RPM
Rated torque	3.18N.m
Current	58.82A
Voltage	12V
Insulation class	Class F
Frequency	50/60Hz

Configuration



*CAN MAKE ACCORDING TO YOUR REQUIRMENT

Brushless motor list

Motor type	Output	Voltage	Load	Speed	Rated Torque	Poles	Efficiency	Noise
	KW	V	A	RPM	N.m		%	dB
VOL-BL06C12	0.6	12	58.82	1800	3.18	2	85	62
VOL-BL075B24	0.75	24	36.76	3000	2.39	2	85	62
VOL-BL090C24	0.9	24	44.6	2600	3.31	8	84	60

VOL-BL100C48	1	48	24.5	2500	3.82	8	85	60
VOL-BL120C24	1.2	24	63.3	4200	2.73	8	79	60
VOL-BL125C24	1.25	24	62	3200	3.73	8	84	60
VOL-BL130C36	1.3	36	40.12	3200	3.88	8	90	60
VOL-BL150C24	1.5	24	73.5	2590	5.53	8	85	61
VOL-BL200C24	2	24	98.6	3360	5.68	8	84.5	61.5
VOL-BL250C24	2.5	24	123	3350	7.13	8	84.7	61.5

Advantages of Brushless DC motor:

- Lower Maintenance 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
- Simple structure
- Higher speed range- no limit of brushes and commutator

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 24V 750W 3000RPM Brushless DC Motor](#)

[Next 48v 4.5kw 1500rpm BLDC Motor](#)

You may like:

				
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Customized 700W 24V Brushless DC Motor	1500RPM 400W 12V High torque Brushless DC Motor	600W 1800RPM 48V DC Brushless Motor	150W Brushless DC Motor In Textile Machinery	560W 24V 2250RPM Brushless DC Motor

DC Motor Manufacturer & Supplier in China
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