

MQCON(SABVOTON)

Chris Chang



History



2012

MQCON Science and Technology Co., Ltd. (here in after referred to as MQCON, original brand name is Sabvoton), is a high-tech enterprise specializing in researching, developing, manufacturing and marketing the motor controller for BLDCM and PMSM which are widely used in electric vehicle drive system.

With a professional and technical elite team led by national experts, MQCON(Sabvoton) has actively developed research cooperation closely with several famous universities and scientific research institutes both in China and abroad, and thus ensure the leading technology.



2021

- 10 years experience for BLDC controller
- located in Jiangsu Province
- professional sales and R&D department
- warranty and quality assured



新日 SUNRA



Jonway



NEOPOWER



ZERO



bluedot

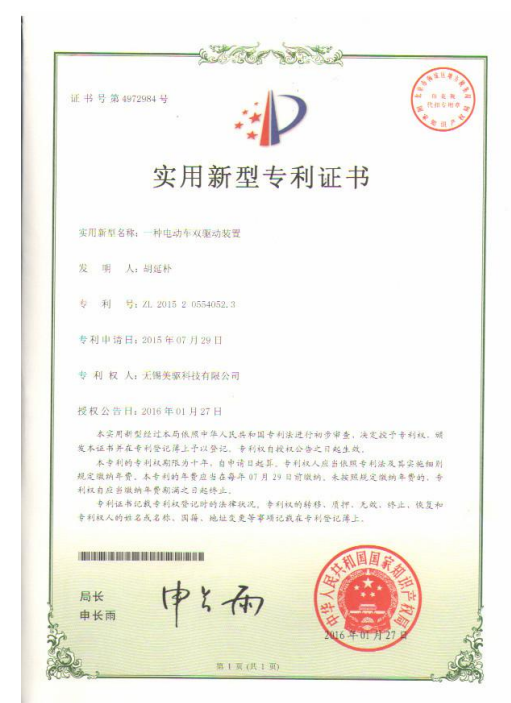
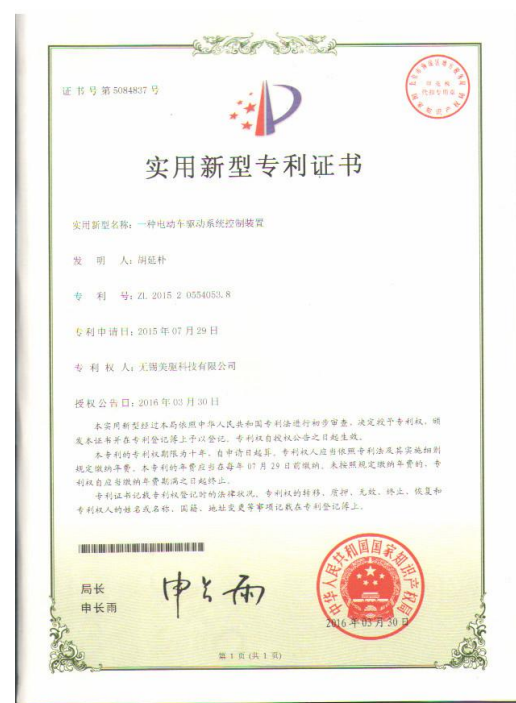
OUR CUSTOMERS

Oversea Market

In the year of 2021, we have customers more than 3,000.

China Market

In the year of 2021, we have dealers and stores more than 100.

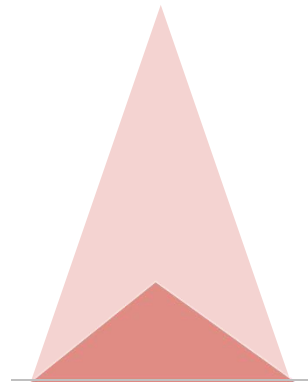


Certifications & Patent

Overview

- Sine wave FOC controller
- Brushless DC design
- with Hall sensor
- phase angle 120 degree.

- Programmable by PC, Phone
- No Noise, Supper Power
- Support EBS, Regen Function
- Support Flux Weakening Function



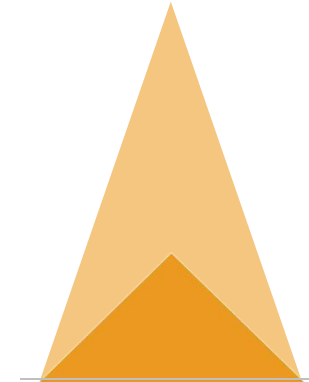
FOC-180°



Easy Use

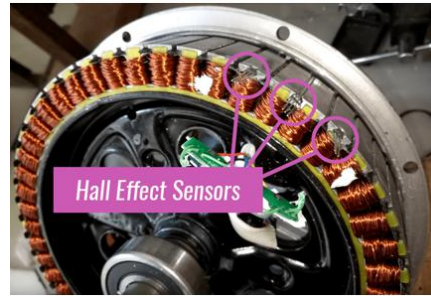


Sine Wave



Quality

MQCON(Sabvoton) SVMC/SSC programmable sine-wave motor controller works with high efficiency, less noise, and lower energy consumption, which makes your electric vehicles or electric motorcycles more comfortable and easier to control. Our designed friendly interface of the programmable motor controller makes you set the parameters, conduct the tests and obtain the diagnostic info easily and quickly.



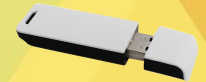
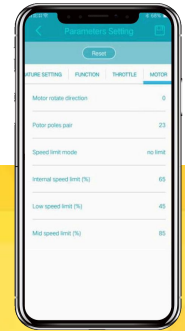
Controller Design

- Sine wave FOC controller
- Brushless DC design
- with Hall sensor
- phase angle 120 degree.
- Programmable by PC, Phone
- No Noise, Super Power
- Support EBS, Regen Function
- Support Flux Weakening Function
- Support OEM/ODM service
- Dual Motor Match support
- Peak Speed 25-130kmh
- CE Certification Approved

Sabvoton sine wave controller is designed to drive DC brushless motors with hall sensor, which is applied on high power electric scooter, bicycle, motorcycle, mini e-car and so on.

Programmable

by PC & Phone



1. Different Controller Design

We have a lot controller models for choice apply to different appliance, like electric scooter, bicycle, motorcycle, car etc.

2. Consulting Scheme

Based on our years of sales data, exhibition research from all over the world, we will offer a best solution for customer's prototype or replacement.

What we offered?

3. Professional after sale service

We offering efficient communication, tech support and purchasing & Produce suggestion, which will make you impressed for after-sale service.

4. OEM/ODM Service

OEM/ODM service support, like controller develop, functions customized.

ALL MODELS CONTROLLER

The V1 and V2 version is only different on dimension installation. The M and H version is display communication version which could be with V1 and V2 dimension. If no mark with M and H, then it's default functions.

Models	DC	Phase	Version
ML7245S	45A	130A	–
ML7260S	60A	150A	–
ML7280S	80A	180A	–
SVMC7245	45A	135A	V1/V2/M/H
SVMC7260	60A	165A	V1/V2/M/H
SVMC7280	80A	200A	V1/V2/M/H
SVMC72100	100A	250A	V1/V2/M/H
SVMC72150	150A	350A	V1/V2/M/H
SVMC72200	200A	450A	V1/V2/M/H
SVMC9650	50A	150A	V1/V2
SVMC9680	80A	200A	V1/V2
SVMC96100	100A	250A	V1/V2
SVMC96120	120A	300A	V1/V2

Controller Models

ML

45A-80A DC



SVMCV1

60A-200A DC



SVMCV2

60A-200A DC



SVMC7245

45A DC



SVMC-M

60A-200A DC



accessories

USB, bluetooth, display, PAS etc.

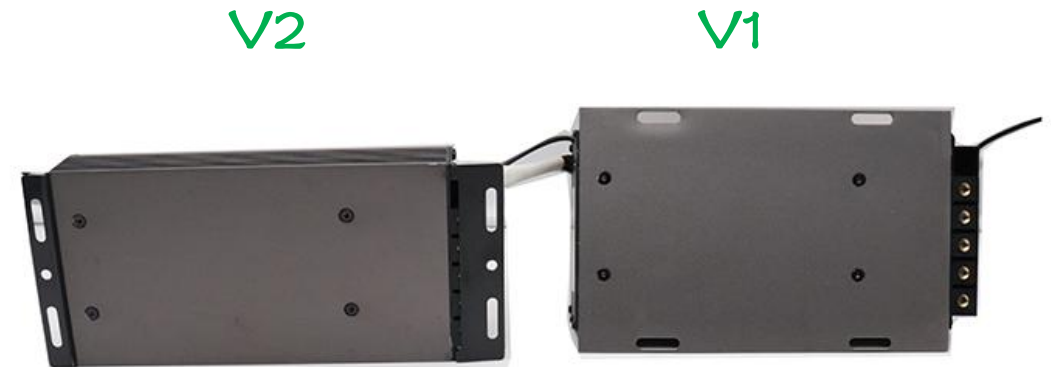


Dimensions

V1 and V2 for choice



It's only different on dimensions for V1 & V2.
Some bicycles with narrow installation space,
so then V2 more suitable.



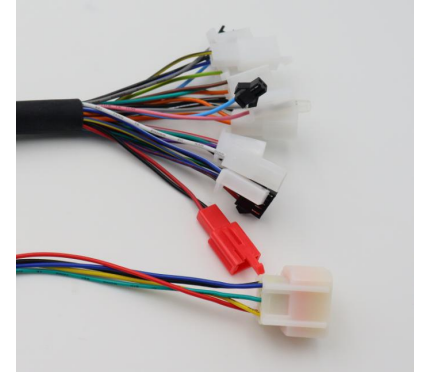
Controller Functions Optional

Mass order support functions & cable customized.

- Hall Plug
- Temp Sensor KTY83-122
- USB cable (for program & bluetooth)
- Ignition
- Throttle
- Low Brake(EBS)
- High Brake
- 0-5V E-brake(analog variable)
- Three Speed
- Alarm & motor lock

- PAS
- Speed limit
- Hall Meter
- Phase Meter
- ONE-LIN Meter
- Display(APT communication protocol)
- Reverse
- Cruise
- Boost
- Three phase wires
- Power wires

normal connector



waterproof connector



Our default functions can be meet with almost applications requirement.

APPLICATIONS

Our controller can be apply for lots of applications, which like electric scooter, electric bicycle, electric motorcycle, electric car, electric tricycle, electric golfcart etc.

Scooter



Bicycle



motorcycle



Tricycle



Car



Forklift



Electric Scooter Controller Kits

SVMC7245-M



XT-100



It's very popular design for Electric Scooter Design. We developed it for BLDC wheel motor 1000w to 2000w kits for different requirements. It could be match with some different display for choice.

Electric Bicycle Controller Kits



**SVMC-M TFT
45A, 36v-72v**



**SVMC-M TFT
60A-200A, 36v-72v**



It's very popular design for Electric Bicycle. We developed it for BLDC wheel motor 800w to 5000w kits for different requirements. It could be match with some different display for choice.



Electric Scooter



SVMC Hall, 45A-200A, 36V-96V

- with hall sensed speedometer.
- functions can be customized for mass order.
- default functions are suitable for almost electric scooters.

It's high market share of BLDC controller for electric vehicle, not only the electric scooter/motorcycle, but also electric tricycle and car.

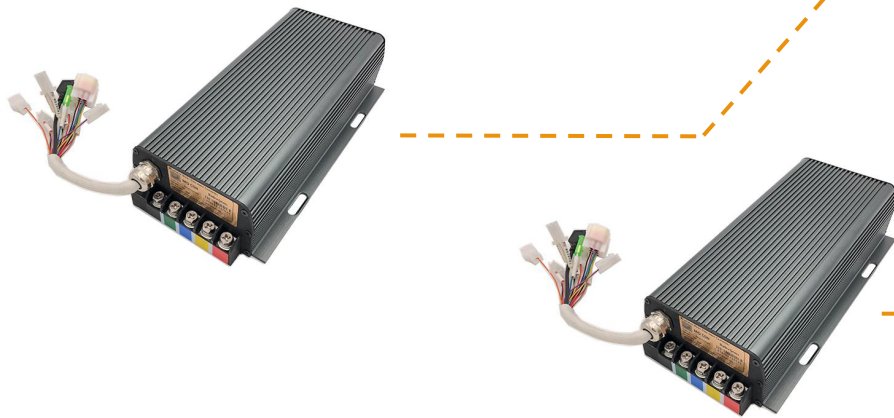
FOR THREE/FOUR WHEELERS

Design



Dual Motor Controller Using

- Dual motors with dual controllers match for using.
- Customzable for different requirements, rich experience for four wheelers and three wheelers.
- Technology service support, like battery recommendation, drawing offer, 3D drawing of braket etc.



SVMC Hall, 45A-200A, 36V-96V



Electric/Hybrid Car

THANK YOU

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