浙江华耕电子科技有限公司

ZHEJIANG HUAGENG ELECTRONIC TECHNOLOGY CO. LTD

ELECTRICAL PARTS FOR MARINE RV & CARAVAN

Company profile

浙江华耕电子科技有限公司成立于2018年，自有现代化独栋厂房，公司坐落于美丽的港口城市宁波，我们是一家具备科技创新能力设计、研发、生产、销售服务为一体专业制造商。

华耕科技立志成为12V&24V行业的领导者，主要为四驱车、露营车、拖车、房车、休闲车、游艇以及户外休闲市场提供完整的电源系统解决方案和应急启动解决方案。公司主要产品有12V&24V智能应急启动电源、整车电源控制系统、船用电源控制系统、12V-48V电源集成控制箱、高压直流继电器12V-48V锂电池组、 电池充电器、车载逆变器、以及12V&24V配件。我们拥有世界先进的研发核心技术，高效优质的供应链配套资源先进的生产设备和检测设备。自主研发产品获得各项产品专利以及产品设计均符合相关认证要求。我们支持OEM和ODM合作方式，我们始终坚持三个第一的经营理念：品质第一、客户第一、服务第一为经营理念。 以质量求生存，以科技创新技术求发展，秉持“科技创新、 持续改进、 质量保证、客户满意的经营方式”，力争发展成为国际专业性最强、规模最大的企业之一。竭诚欢迎各界精英人士，携手共创美好明天。我们将始终坚持为全球创造商业价值和社会价值而努力奋斗终身。

我们的愿景：成为细分领域世界知名品牌，成为实现所有合作伙伴梦想的平台。

我们的核心价值观：创新、诚信、共赢，责任、真诚、感恩、自信、快乐

我们的使命：让车船电路系统安全无忧，让生活更美好。

Zhejiang Huageng Electronic Technology Co., Ltd. was established in 2018 and operates in a modern standalone factory located in the beautiful port city of Ningbo. We are a professional manufacturer that integrates technological innovation, design, R&D, production, and sales services.

Huageng Technology is committed to becoming a leader in the 12V & 24V industry, primarily providing complete power system solutions and emergency start solutions for four-wheel drive vehicles, camping vehicles, trailers, recreational vehicles, leisure vehicles, yachts, and the outdoor leisure market. Our main products include 12V & 24V intelligent emergency start power supplies, vehicle power control systems, marine power control systems, 12-48V power integration control boxes, high-voltage DC relays, 12V-48V lithium battery packs, battery chargers, inverters, and 12V & 24V accessories.

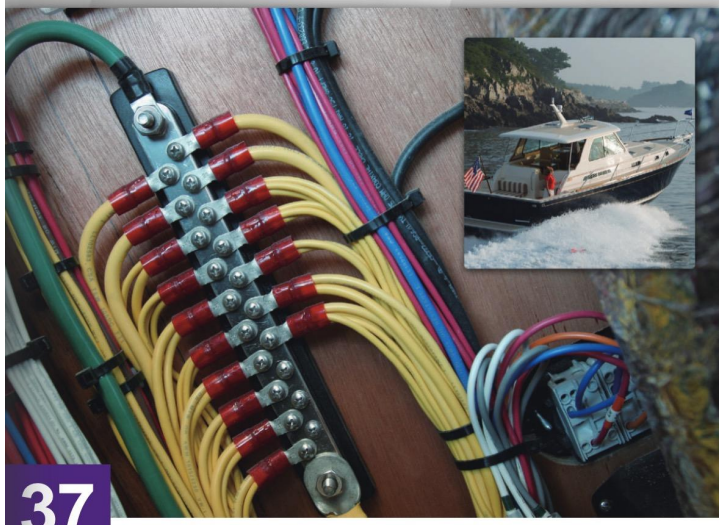
We possess the advanced world-class core R&D technologies, efficient and high-quality supply chain resources, advanced production and testing equipments. Our independently developed products have obtained various patents, and our product designs all meet the relevant certification requirements.We support the OEM and ODM cooperation and consistently adhere to our business philosophy: "Quality first, Customer first and Service first." We insist in "Quality first" as foundation, develop through technological innovation, and uphold a business belief of "Technological innovation, Continuous improvement, Quality assurance, and Customer satisfaction." Our goal is to become one of the strongest and largest international professional enterprises. We sincerely welcome all the elites to join us to create a better tomorrow.

We are committed to creating global commercial and social value for life, and will strive for a lifetime.

Our vision: to become a world-renowned brand in our niche market and a platform for realizing the dreams of all our partners.

Our core values: Innovation, Integrity, Mutual Benefit, Responsibility, Sincerity, Gratitude, Self-confidence, and Happiness.

Our mission is to ensure that vehicle and vessel electrical systems are safe, and to make life better.



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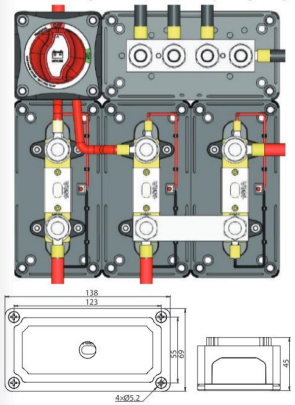
Bus Bars

- Heavy-Duty Modular Design Fuse Block & Bus Bars
- Heavy-Duty Terminal Studs
- Marine Grade Bus Bars (Metric Threading)
- Heavy-Duty Bus Bars (Imperial Threading)
- Main Battery Switches Series
- Voltage Sensitive Relay (VSR) / Automatic Charging Relay

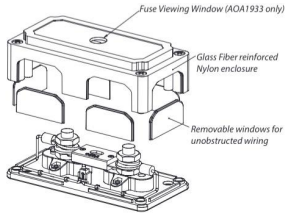
Heavy-Duty Modular Design Fuse Block & Bus Bars

Module box design for clean, neat and easy wiring configurations



Features

- Module box design for easy wiring configurations
- Robust Glass Fiber reinforced Nylon enclosure
- All models are of the same dimensions (see below)
- 6 removable windows at 4 directions
- Blank write-on space on the top allows easy labeling
- Complete product line including fuse blocks, bus bars and terminal studs



Module Design ANL Fuse Box

AOA1933 Heavy-duty Modular Design ANL Fuse Box
AOA1934 Heavy Duty ANL Fuse Box with Additional Cable Connection Studs

AOA1933

- Withstands high currents between 100-300A ANL Fuses (not included)
- Open window on the top for clear vision of blown fuse
- LED indication of blown fuse condition (turns on when fuse blows)

Specifications

- Max Operating Voltage | DC 32V
- Max Continuous Amp | 35-300A (determined by fuse)
- Terminal Stud Size | 2 x M10 (3/8")

AOA1934

- Additional studs with heavy duty oxygen-free copper bus bar
- Withstands high currents up to 750A ANL Fuses (not included)
- Open window on the top for clear vision of blown fuse
- LED indication of blown fuse condition (turns on when fuse blows)

Specifications

- Bus Materia | Oxygen-free Copper, Nickel plated
- Max Operating Voltage | DC 32V
- Max Continuous Amp | 35-750A (determined by fuse)
- Terminal Stud Size | 4 x M10 (3/8")

Heavy Duty Bus Bar Box
AOA1104 / AOA1103 Heavy-Duty Module Design Bus Bar Box with 4 Terminal Studs

- Highest amperage rated bus bar (300A) with M10 terminal studs (also available in M8)
- Blank write-on space on the top allows easy labeling for each branch

Specifications

- Bus Material | Brass, Nickel plated
- Max Operating Voltage | DC 48V
- Max Continuous Amp | 300A
- Terminal Stud Size | 4 x M10 (3/8") (AOA1104) / 4x M8 (5/16") (AOA1103)

Heavy Duty Bus Bar Box
AOA1105 Heavy-Duty Module Design Bus Bar Box with 2 x M10 Terminal Studs & 6 x M5 Screws

- Highest amperage rated bus bar (300A) with M10 terminal studs
- Blank write-on space on the top allows easy labeling for each branch

Specifications

- Bus Material | Brass, Nickel plated
- Max Operating Voltage | DC 48V
- Max Continuous Amp | 300A
- Terminal Stud Size | 2 x M10 (3/8")
- Screw Size | 6 x M5 (3/16")

Heavy Duty Dual Bus Bar Box
AOA1109 Heavy-Duty Modular Design Dual Bus Bars with Connecting Link

- Dual Bus Bar with removable connecting link
- Nickel plated brass bus bar allowing current up to 100A
- Blank write-on space on the top allows easy labeling for each branch

Specifications

- Bus Material | Brass, Nickel plated
- Max Operating Voltage | DC 48V
- Max Continuous Amp | 100A
- Terminal Stud Size | 4 x M6 (1/4")
- Screw Size | 12 x M4 (5/32")

4 Way Heavy-Duty Terminal Studs Box
AOA1110 Heavy-Duty Modular Design Terminal Studs with Insulation Partition

- Allow terminating of heavy-duty cables for one or more connections (each terminal)
- Removable insulation partition included
- Heavy duty terminal studs (up to M10), allowing current up to 200A (rating determined by wires connected)
- Terminal Studs available in M8 or M10 (Default: M10)
- Blank write-on space on the top allows easy labeling for each branch

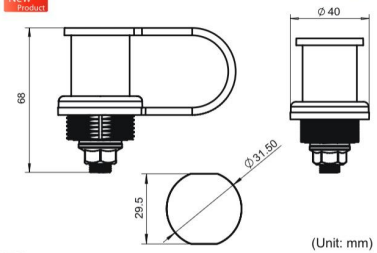
Specifications

- Max Operating Voltage | DC 48V
- Max Amp per circuit | Determined by wires connected
- Terminal Stud Size | 4 x M10 (3/8")

Battery charger terminal

New Product

AOA12513



(Unit: mm)

Specifications

- Nut : Stainless Steel
- Bolt : Brass
- Dust Cover : PVC
- Voltage MAX Operating : 48V DC
- Continuous Rating : 250A
- Fire Rating : UL94 V-0
- Terminal Stud Size : 1 X 3/8"

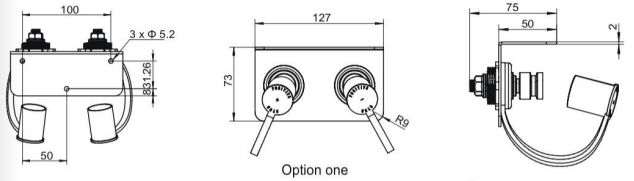
Features

- Made of PVC, nylon, and brass materials, high strength, impact resistance, corrosion resistance.
- PVC plastic insulation cap, easy to open and close, can block dirt, water, dust, and sand, thus extending the service life.
- Rated current is 250A, fire rating is UL 94 V-0, stable structure, long service life.
- Used in power systems for cars, RVs, boats, yachts, racing cars, agricultural vehicles, etc.
- Easy access to battery terminals and fast charging.

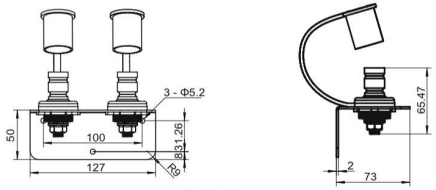
Battery jump post kit

New Product

AOA12413



Option one



Option two

(Unit: mm)

Specifications

- Anel Material : Aluminum Sheet
- Nut : Stainless Steel
- Bolt : Brass
- Dust Cover : PVC
- Voltage MAX Operating : 48V DC
- Continuous Rating : 250A
- Dimensions (LxWxH) : 127*73*75mm
- Terminal Stud Size : 2 X 3/8"

Installation Method

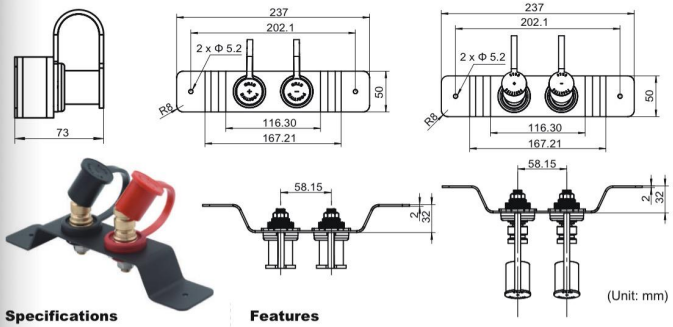
Option one

Option two

Features

- Made of PVC, nylon, and brass materials, high strength, impact resistance, corrosion resistance.
- Installed through the body panel, easy access to battery terminals and fast charging.
- PVC plastic insulation cap, easy to open and close, can block dirt, water, dust, and sand, thus extending the service life.
- Rated current is 250A, fire rating is UL 94 V-0, stable structure, long service life.
- Used in power systems for cars, RVs, boats, yachts, racing cars, agricultural vehicles, etc.
- Easy access to battery terminals and fast charging.

AOA12613



Specifications

- Anel Material : Aluminum Sheet
- Nut : Stainless Steel
- Bolt : Brass
- Dust Cover : PVC
- Voltage MAX Operating : 48V DC
- Continuous Rating : 250A
- Dimensions(LxWxH) : 237*50*73mm
- Terminal Stud Size : 2 X 3/8"

Features

- Made of PVC, nylon, and brass materials, high strength, impact resistance, corrosion resistance.
- Installed through the body panel, easy access to battery terminals and fast charging.
- PVC plastic insulation cap, easy to open and close, can block dirt, water, dust, and sand, thus extending the service life.
- Rated current is 250A, fire rating is UL 94 V-0, stable structure, long service life.
- Used in power systems for cars, RVs, boats, yachts, racing cars, agricultural vehicles, etc.
- Easy access to battery terminals and fast charging.

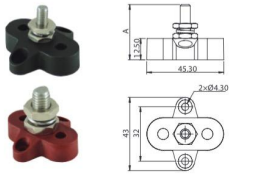
Heavy-Duty Terminal Studs

- Allow terminating of heavy-duty cables for one or more connections
- Red or Black colors allowing easy and clear color coding for wiring
- Glass Fiber reinforced Nylon base ensures great mechanical strength and durability
- Heavy duty terminal studs (up to M10)
- Insulated base ensures no leakage to metal hulls (New Feature)

Specifications

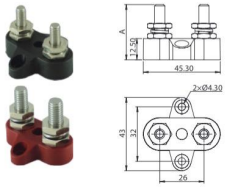
- Max Operating Voltage | DC 48V
- Max Amp per circuit | Determined by wires connected
- Terminal Stud Size | See each model

Single Terminal Studs
AOA1400



Product ID	Stud Size	A. Height (mm)
AOA1400-M6 / AOA1400R-M6	2 x M6 (1/4")	32.5
AOA1400-M8 / AOA1400R-M8	2 x M8 (5/16")	32.5
AOA1400-M10 / AOA1400R-M10	2 x M10 (3/8")	37.5

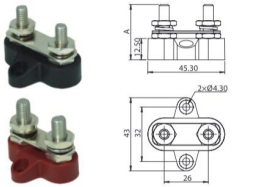
Dual Terminal Studs
AOA1401



- Dual Terminal Studs with options of different studs sizes

Product ID	Stud Size	A. Height (mm)
AOA1401-M6 / AOA1401R-M6	2 x M6 (1/4")	32.5
AOA1401-M8 / AOA1401R-M8	2 x M8 (5/16")	32.5

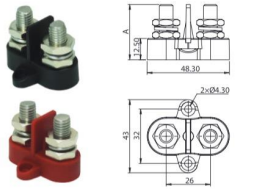
Dual Terminal Studs with Connecting Link
AOA1403



- Dual Terminal Studs with options of different studs sizes
- Removable Connecting Link withstands current up to 80A

Product ID	Stud Size	A. Height (mm)
AOA1403-M6 / AOA1403R-M6	2 x M6 (1/4")	32.5
AOA1403-M8 / AOA1403R-M8	2 x M8 (5/16")	32.5

Dual Terminal Studs with Isolating Plate
AOA1404



- Dual Terminal Studs with options of different studs sizes
- Removable isolating plate

Product ID	Stud Size	A. Height (mm)
AOA1404-M8 / AOA1404R-M8	2 x M8 (5/16")	32.5
AOA1404-M10 / AOA1404R-M10	2 x M10 (3/8")	37.5
AOA1404-M8M10 / AOA1404R-M8M10	1 x M8 (5/16") + 1 x M10 (3/8")	37.5

Marine Grade Bus Bars (Metric Threading)

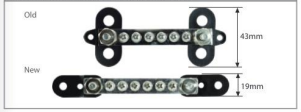
- Metric threading screws and studs
- Glass fiber reinforced Nylon base ensures great mechanical strength and durability
- Optional transparent insulating cover with recessed area for label stickers
- Tin-plated copper bus allowing current up to 150A
- Stainless steel studs and screws provide great anti-corrosion ability on board
- Insulated base ensures no leakage to metal hulls

Upgrades from old models

Transparent cover for all models

Insulated base ensures no leakage to metal hulls

New compact base for single bus bars



Bus height differentials allow cable output from the same side (AOA1133)

Single Bus Bars

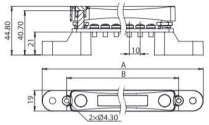
Compact size bus bars with ample 150A capacity

AOA6P1113 / AOA6P1114

AOA6P1113C / AOA6P1114C (with cover)

AOA12P1113/ AOA12P1114

AOA12P1113C / AOA12P1114C (with cover)

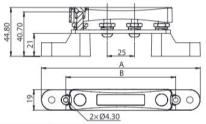


AOA4P1115

AOA4P1115C (with cover)

AOA6P1115

AOA6P1115C (with cover)

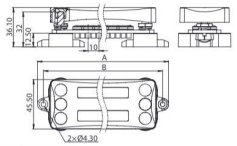


Product ID	Studs	Screws	A. Length (mm)	B. Mounting Centers (mm)	Rating	Bus Material
AOA6P1113	2 x M6 (1/4")	6 x M4 (5/32")	146	101	100A	Brass
AOA12P1113	2 x M6 (1/4")	12 x M4 (5/32")	206	161	100A	Brass
AOA6P1114	2 x M6 (1/4")	6 x M4 (5/32")	146	101	150A	Copper
AOA12P1114	2 x M6 (1/4")	12 x M4 (5/32")	206	161	150A	Copper
AOA4P1115	4 x M6 (1/4")	-	146	101	100A	Brass
AOA6P1115	6 x M6 (1/4")	-	206	161	100A	Brass

Common Bus Bars
Standard common bus bars with 10 or 22 terminals

AOA10P1119
AOA10P1119C (with cover)

AOA22P1119
AOA22P1119C (with cover)

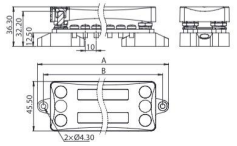


Product ID	Studs	Screws	A. Length (mm)	B. Mounting Centers (mm)	Rating
AOA10P1119	2 x M6 (1/4")	10 x M4 (5/32")	118	107	150A
AOA22P1119	2 x M6 (1/4")	22 x M4 (5/32")	178	167	150A

Dual Bus Bars
Dual bus bars with removable connecting link

AOA6P1130 / AOA6P1131
AOA6P1130C / AOA6P1131C (with cover)

AOA12P1130 / AOA12P1131
AOA12P1130C / AOA12P1131C (with cover)

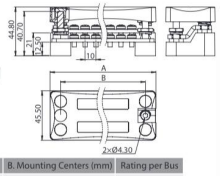


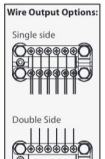
Product ID	Studs	Screws	A. Length (mm)	B. Mounting Centers (mm)	Rating per bus	Bus Material
AOA6P1130	Dual 2 x M6 (1/4")	Dual 6 x M4 (5/32")	118	107	100A	Brass
AOA12P1130	Dual 2 x M6 (1/4")	Dual 12 x M4 (5/32")	178	167	100A	Brass
AOA6P1131	Dual 2 x M6 (1/4")	Dual 6 x M4 (5/32")	118	107	150A	Copper
AOA12P1131	Dual 2 x M6 (1/4")	Dual 12 x M4 (5/32")	178	167	150A	Copper

"2-Steps" Dual Bus Bar
Bus bars with different heights allowing more flexible wiring

AOA6P1133
AOA6P1133C (with cover)

AOA12P1133
AOA12P1133C (with cover)

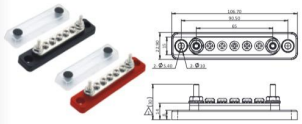




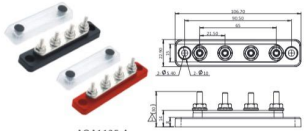
Product ID	Studs	Screws	A. Length (mm)	B. Mounting Centers (mm)	Rating per Bus
AOA6P1133	Dual 2 x M6 (1/4")	Dual 6 x M4 (5/32")	94	75	150A
AOA12P1133	Dual 2 x M6 (1/4")	Dual 12 x M4 (5/32")	154	135	150A

Heavy-Duty Bus Bars (Imperial Threading)

Mini Bus 100A Common Busbars



AOA1134-A

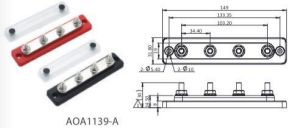


AOA1135-A

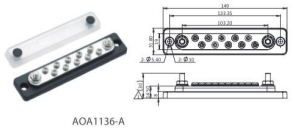
- Continuous Amperage: 100 Amperes DC
- Voltage Rating: 48 Volts DC Maximum
- Bus bar: Tin-plated solid copper

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover
AOA1134-A	#8-32	Red/Black	3×16"-24	100A	Copper	/
AOA1134-A-C	#8-32	Red/Black	3×16"-24	100A	Copper	YES
AOA1135-A	/	Red/Black	3×16"-24	100A	Copper	/
AOA1135-A-C	/	Red/Black	3/16"-24	100A	Copper	YES

150A Common Busbars

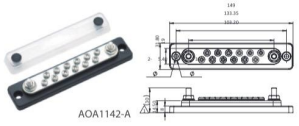


AOA1139-A



AOA1136-A

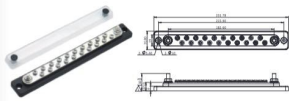
- Continuous Amperage: 150 Amperes DC
- Voltage Rating: 48 Volts DC Maximum
- Bus bar: Tin-plated solid copper



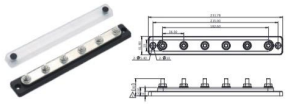
AOA1142-A

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover
AOA1139-A	/	Red/Black	4×1/4"-20	150A	Copper	/
AOA1139-A-C	/	Red/Black	4×1/4"-20	150A	Copper	YES
AOA1136-A	10×#8-32	Red/Black	2×1/4"-20	150A	Copper	/
AOA1136-A-C	10×#8-32	Red/Black	2×1/4"-20	150A	Copper	YES
AOA1142-A	12×#8-32	Red/Black	2×1/4"-20	150A	Copper	/
AOA1142-A-C	12×#8-32	Red/Black	2×1/4"-20	150A	Copper	YES

150A Common Busbars



AOA1140-A



AOA1141-A

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover
AOA1134-A	20×#8-32	Red/Black	2×1/4"-20	150A	Copper	/
AOA1134-A-C	20×#8-32	Red/Black	2×1/4"-20	150A	Copper	YES
AOA1135-A	/	Red/Black	6×1/4"-20	150A	Copper	/
AOA1135-A-C	/	Red/Black	6×1/4"-20	150A	Copper	YES

Heavy Duty Copper Busbars To 250A

AOA1143-A

AOA1144-A

AOA1145-A

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover
AOA1143-A	/	Red/Black	4×5/16"-18	250A	Copper	/
AOA1143-A-C	/	Red/Black	4×5/16"-18	250A	Copper	YES
AOA1144-A	/	Red/Black	6×5/16"-18	250A	Copper	/
AOA1144-A-C	/	Red/Black	6×5/16"-18	250A	Copper	YES
AOA1145-A	/	Red/Black	2×5/16"-18	250A	Copper	/
AOA1145-A-C	12×#8-32	Red/Black	2×5/16"-18	250A	Copper	YES

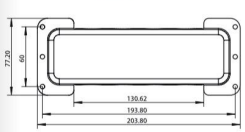
Bus Bars

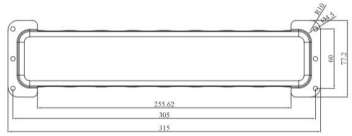
600A Common Busbars

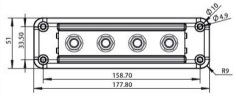
High amperage Busbar with 3/8" terminal Studs

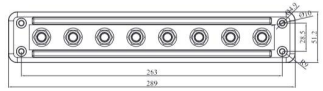
Continuous Rating	545A AC / 600A DC
Voltage Max.Operating	300V AC / 48V DC
Mounting Hardware	#10(M5) Screws
Bus Material	Copper

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover
AOA1149-A	/	Red/Black	8×3/8"	600A	Copper	/
AOA1149-A-C	/	Red/Black	8×3/8"	600A	Copper	YES
AOA1149-4P	/	Red/Black	M10	600A	Copper	/
AOA1149C-4P	/	Red/Black	M10	600A	Copper	YES









NEW Common Busbars (400A)

AOA1533-400A-BB

AOA1533-400A-BR

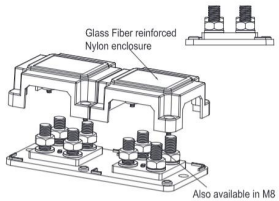
AOA1533-400A-RR

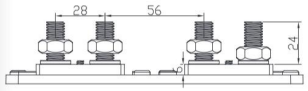
Features

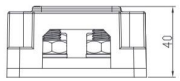
- Highest amperage rated bus bar(400A)with M10 TERMINAL STUDS (Also available in M8)
- Module box design for easy wiring configurations
- Glass Fiber reinforced Nylon base and enclosure ensures ensures great mechanical strength and durability
- Three sides are reserved for the outlet to ensure unobstructed wiring
- Blank write-on space for easy labeling of each branch (not depicted)
- Utility patent : CN202220536141.5
- Appearance patent : CN202230119152.9

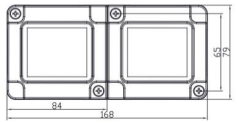
Specifications

- Base& Cover Material: Nylon,Glass Fiber reinforc
- Bus Material: Nickel plated red copper
- Max Operating Voltage: DC 48V
- Max Continuous Amp: 400A
- Terminal Stud Size: 4xM10(3/8")+4xM10(3/8")
- Dimensions(LxWxH): 168x79x40mm









NEW Common Busbars (600A)

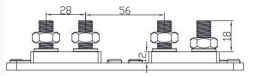
AOA1533-600A-BB

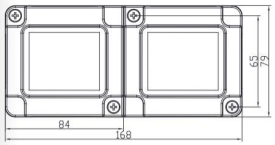
AOA1533-600A-BR

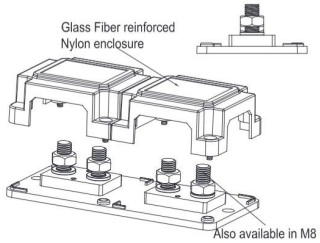
AOA1533-600A-RR

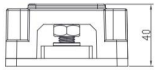
Specifications

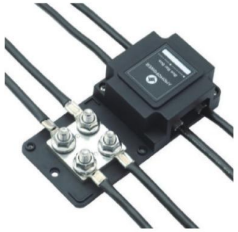
- Base& Cover Material:Nylon,Glass Fiber reinforc
- Bus Material:Nickel plated red copper
- Max Operating Voltage:DC 48V
- Max Continuous Amp:600A
- Terminal Stud Size:2xM10(3/8")+2xM10(3/8")
- Dimensions(LxWxH):168x79x40mm











Power Post Cable Connectors (180A-300A)

AOA6213

AOA6313

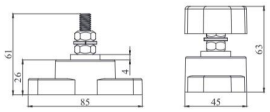
Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover	Dimensions (L xWxH)
AOA6213R/B-M8	8*#8-32	Red/Black	5/16"	180A	Copper	/	85*45*70mm
AOA6213CR/B-M8			5/16"			Yes	
AOA6213R/B-M10			3/8"			/	
AOA6213CR/B-M10			3/8"			Yes	
AOA6313R/B-M8			5/16"	300A		/	
AOA6313CR/B-M8			5/16"			Yes	
AOA6313R/B-M10			3/8"			/	
AOA6313CR/B-M10			3/8"			Yes	

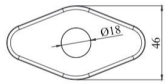
Features

- Cable Connectors Enables connection of multiple smaller wires in spaces where a traditional bus bar may not fit
- Allows small wire connections at high amperage cable connections

Power Post Cable Connectors (300A)

AOA6113





Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover	Dimensions (L xWxH)
AOA6113R/B-M8	/	Red/Black	5/16"	300A	Copper	/	85*45*70mm
AOA6113CR/B-M8			5/16"			Yes	
AOA6113R/B-M10			3/8"			/	
AOA6113CR/B-M10			3/8"			Yes	

Features

• Insulated single stainless steel stud terminates multiple large conductors

Specifications

• Base& Cover Material: Nylon,Glass Fiber reinforc and PC
• Voltage MAX. Operating: 48V DC
• Bus Material: plate with nickel Copper
• Dimensions (LxWxH): 85*45*70mm

3 Stud Bus Bar Power Distribution Block (150A-600A)

AOA4813R/B AOA4913R/B AOA5013R/B

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover	Dimensions (L xWxH)
AOA4813R/B-M8	4*#8-32	Red/Black	5/16"	150A	Copper	/	102*50*52mm
AOA4813CR/B-M8			5/16"			Yes	102*50*57mm
AOA4913R/B-M8			5/16"	300A		/	102*50*52mm
AOA4913R/B-M10			3/8"			/	102*50*60mm
AOA4913CR/B-M8			5/16"			Yes	102*50*57mm
AOA4913CR/B-M10			3/8"			Yes	102*50*68mm
AOA5013R/B-M10			3/8"	600A		/	102*50*60mm
AOA5013CR/B-M10			3/8"			Yes	102*50*68mm

Features

- Heavy-duty Bus Bars provide a robust means to connect (bus) together the multitude of large cables found in modern electrical installations
- Highest amperage rated bus bar (600A) with 3/8" terminal studs (Also available in 5/16")
- They offer unrivaled flexibility to meet the requirements of any installation, saving significant cost and space

Specifications

- Base& Cover Material: Nylon,Glass Fiber reinforc and PC
- Voltage MAX. Operating: 48V DC
- Bus Material: plate with nickel Copper

4 Stud Bus Bar Power Distribution Block (150A-600A)

AOA4513R/B

AOA4613R/B

AOA4713R/B

Product ID	Teminal Screws	Color (Optional)	Terminal Studs	Rating	Bus Material	With Cover	Dimensions (L xWxH)
AOA4513R/B-M8	/	Red/Black	5/16"	150A	Copper	/	102*50*52mm
AOA4513CR/B-M8			5/16"			Yes	102*50*57mm
AOA4613R/B-M8			5/16"	300A		/	102*50*52mm
AOA4613R/B-M10			3/8"			/	102*50*60mm
AOA4613CR/B-M8			5/16"			Yes	102*50*57mm
AOA4613CR/B-M10			3/8"			Yes	102*50*68mm
AOA4713R/B-M10			3/8"	600A		/	102*50*60mm
AOA4713CR/B-M10			3/8"			Yes	102*50*68mm

Features

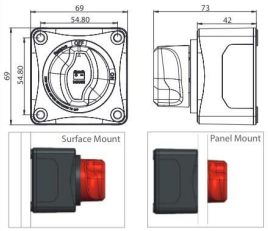
- Heavy-duty Bus Bars provide a robust means to connect (bus) together the multitude of large cables found in modern electrical installations
- Highest amperage rated bus bar (600A) with 3/8" terminal studs(Also available in 5/16")
- They offer unrivaled flexibility to meet the requirements of any installation, saving significant cost and space

Specifications

- Base& Cover Material: Nylon,Glass Fiber reinforc and PC
- Voltage MAX. Operating: 48V DC
- Bus Material: plate with nickel Copper

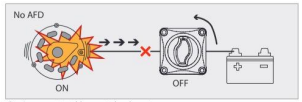
AMOMD Main Battery Switches Series

Battery Main Switch (On-Off)
AOK9000 / AOK9000A (with AFD)
Battery Selector Switch (1-2-Both-Off)
AOK9001 / AOK9001A (with AFD)

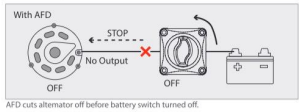


Features

- Unique ergonomic and aesthetic knob design
- Knobs removable for isolation / safety
- Smallest battery switch with AFD (Alternator Field Disconnect) feature in market (BF441A, BF442A)
- Dimensions fits Heavy Duty Modular Fuse Box Series (BF43x)
- Robust Glass Fiber reinforced Nylon enclosure
- Removable windows for unobstructed wiring
- Compact size matching mainstream products in market (BEP style)
- Surface or panel mount options provides flexibility when installing
- Patented in Taiwan(D183413), China(ZL201730358133.0)
- Meet Ignition Protection Standard (ISO8846 / SAE J1171), suitable for use in marine engine room and fuel tank spaces.



Continuous output blows out the alternator.



AFD cuts alternator off before battery switch turned off.

Product Series

AOK9000 / AOK9000A

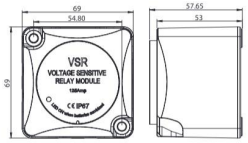
AOK9001 / AOK9001A

Product ID	Function	Voltage Rating (Max)	Stud Size	Cranking Rating (10Secs)	Intermittent Rating (5 mins)	Continuous Rating (1hr)	Note
AOK9000	ON-OFF	48V	M10	1250A	455A	275A	-
AOK9000A	ON-OFF	48V	M10	1250A	455A	275A	with AFD
AOK9001	1-2-Both-Off	48V	M8	1000A	300A	200A	-
AOK9001A	1-2-Both-Off	48V	M8	1000A	300A	200A	with AFD

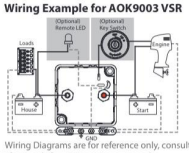
Voltage Sensitive Relay (VSR) / Automatic Charging Relay

IGNITION PROTECTED | PATENTED TW,CH

AOK9003



Wiring Example for AOK9003 VSR



Wiring Diagrams are for reference only, consult professionals for wiring suits your needs.

VSR (Voltage Sensitive Relay) or ACR (Automatic Charging Relay) are automatically controlled switches that allow two batteries to be combined when charging, and to be isolated when not charging and current is draining from one of the batteries. When used with battery switches, VSR helps to reserve a fully charged battery at all time, avoid the dead battery and possibility of towing on the sea.

Features

- Automatically combines two batteries when charging and isolates the two batteries when not charging.
- No voltage drops comparing to battery isolator diodes (0.6V).
- Dimensions fits Heavy Duty Modular Fuse Box Series (BF43x) and Battery Switch, matching mainstream products in market (BEP style)
- Robust Glass Fiber reinforced Nylon enclosure
- Built-in LED indication (ON when VSR engages)
- Port for remote LED indicating VSR status (LED not included)
- Surface or panel mount options provides flexibility when installing
- Optional Storage Mode allows zero power consumption when engine is off.

Specifications

- Nominal Voltage | DC 12V
- Combine / Open Voltage | DC 13.3V / 12.8V
- Continuous Current Rating | 125A
- Intermittent Current Rating | 140A
- Power Consumption | 10mA (Standby) / 330mA (Engage) / 0mA (Storage Mode)
- Note | CE IP67 ISO8846/SAE J1171 (Ignition Protected)

VSR with Cable Kit for 2nd Battery

AOK9003A

This Kit provides all the necessary cables, accessories and the VSR that you need to install the secondary battery with the VSR. Customer installing this for the first time will find it convenient to have the cables ready in single package.

Kit Content

- 1 x VSR (Voltage Sensitive Relay) with mounting screws
- 1 x 6 meter red cable terminated at both ends
- 1 x 600mm black earth cable
- 2 x Positive marine battery terminals
- 1 x Negative marine battery terminal
- 2 x SC16-8 copper crimp lugs (for red cable)
- 1 x SC25-8 copper crimp lugs (for black cable)
- 2 x Red heat shrink
- 1 x Insulated blue ring terminal
- 6 x 200mm cable ties
- 1 x Instruction manual