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.

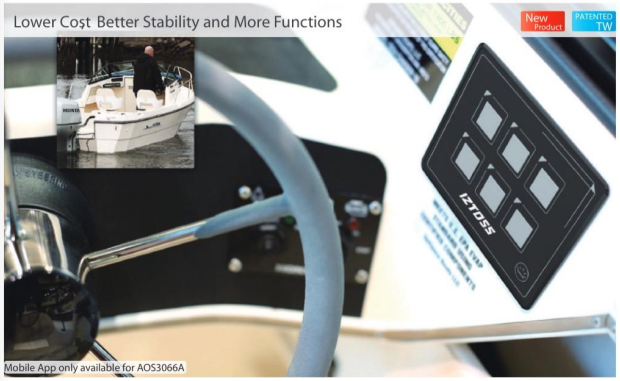
Our mission is to ensure that vehicle and vessel electrical systems are safe, and to make life better.

01

Switch Panels

- Water -resistant Swicth Panels
- New Digital Membrane Touch Control Panels
- Aluminum Water-resistant Switch Panel
- Curved Water-resistant Switch Panel
- AOS3034 1 gang Curved Switch Panel Serise
- Carbon Fiber Switch Panel
- Moderm Design Toggle Switch Panel
- Power Distribution Panels
- Wave Design Switch Panel
- Other Switch Panels

New Digital Membrane Touch Control Panels

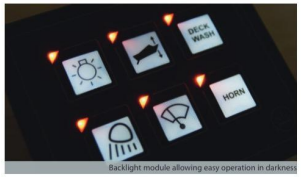


Description

This popular membrane panel series just got even better! With the incorporation of new digital IC, these panels are now more reliable, cheaper and with some more advanced features like reduced standby current, compact micro-USB cable connection, momentary button programmable for any button. You can even use your iPhone or Android App to control the membrane control box via Bluetooth (AOS3066A).

Incorporated digital IC allowing great cost reduction

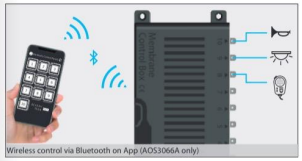
Programmable momentary button on all buttons.



Backlight module allowing easy operation in darkness

Features

- Ultra Compact panel size (60% smaller than traditional panels)
- Easy to install – no mounting depth, minimum hole drilling (13.0 x 8.5mm)
- Use compact, ready accessible micro-USB cable, end user can replace cables of any desirable length
- Flexible wiring – Control Relay Box installed 1m away from the touch panel
- IP67 - Protected even under temporary water immersion (Panel only)
- ON-indication LED / 10A Self-resettable fuse for each branch
- Backlight module allowing easy operation in darkness
- Programmable momentary button – ALL buttons can be programmed to be momentary (ideal for horn or wiper applications)
- 60pcs Assorted Graphic and Text labels stickers set included


Wireless control via Bluetooth on App (AOS3066A only)

Additional Features for AOS3066A (App Compatible Version)

- Control devices by your Cellphone via Bluetooth (sync with physical panel)
- System Voltage and panel Amperage detection shown in virtual panel
- Push Notification on low voltage (11.2V) and over current protection
- 4 templates of virtual panels / 80+ labels with manual input text options
- Momentary function toggles for all buttons
- Pairs up to 4 control boxes in one cellphone
- Available in Android / iOS versions

Product Series

AOS3065 / AOS3065D(6P)

6P Membrane Panel

6P Remote Control Box

Micro USB Cable (1m)

60pcs Label Stickers

AOS3066 / AOS3066D / AOS3066A (10P)

10P Membrane Panel

10P Remote Control Box

Micro USB Cable (1m)

60pcs Label Stickers

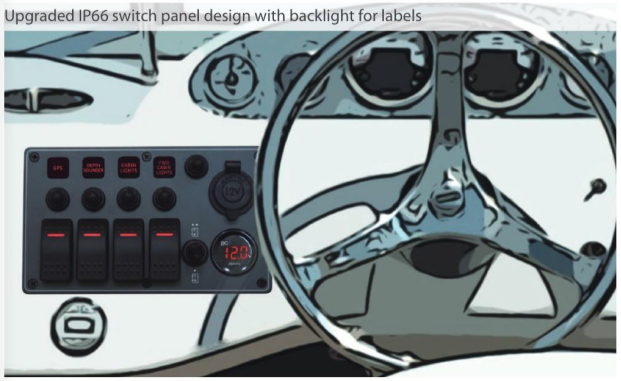
Product ID	Positions	Touch Panel (W x H)	Panel Cut-out(W x L)	Control Box (L x W x H)	Note
AOS3065	6	91 x 75 mm	ø15 mm (13 x 8.5 mm)	136 x 90 x 32 mm	12V Only
AOS3065D	6	91 x 75 mm	ø15 mm (13 x 8.5 mm)	136 x 90 x 32 mm	Dual Voltage (12 - 24V)
AOS3066	10	130 x 75 mm	ø15 mm (13 x 8.5 mm)	214 x 95 x 29 mm	12V Only
AOS3066D	10	130 x 75 mm	ø15 mm (13 x 8.5 mm)	214 x 95 x 29 mm	Dual Voltage (12 - 24V)
AOS3066A	10	130 x 75 mm	ø15 mm (13 x 8.5 mm)	214 x 95 x 29 mm	App Compatible Version / Dual Voltage

Specifications

- **Faceplate** | PET membrane touch panel
- **Circuit Protection** | Built-in Resettable Fuse (PPTC)
- **Switch Ratings** | 10A per branch
- **Panel Rating** | Max Cumulative Amp: 35A(6P) / 60A (10P)
- **Voltage Rating** | DC 9 - 15V (12V Model) / DC 11 - 30V (12-24V Model)
- **Notes** | CE IP67 (Panel Only)
- **Patented**

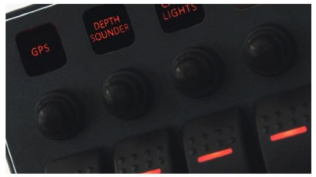
Aluminum Water-resistant Switch Panel

Upgraded IP66 switch panel design with backlight for labels



Features

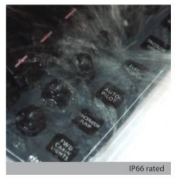
- New modern and compact panel design (15% smaller than AOS30xx series)
- Backlight modules for labels, allowing easy operation in darkness
- IP66–protect against strong water jets
- Push-reset circuit breakers with rubber boots
- Illuminated (LED) rocker switches with dual voltage rating (12V / 24V)
- Watertight mounting gasket included
- Square shaped label stickers (30pcs) allow vertical or horizontal installation



Specifications

- **Faceplate** | 0.1"(2.54mm) Coated Aluminum Alloy
- **Circuit Protection** | Circuit Breakers
- **Switch Ratings** | 20A @ DC 12V / 10A @ DC 24V (Dual Voltage)
- **Panel Rating** | Maximum Cumulative Amp: 45A, 45A x 2 (8P)*
- **Notes** | IP66 CE

* Max possible Amperage for each panel is determined by the lower of total switches ratings or the Max Cumulative Amperage listed above.


IP66 rated

4-way installations

Product Series

AOS3010

AOS3011

AOS3013

AOS3014

AOS3015

AOS3010W

AOS3011W

AOS3013W

AOS3014W

AOS3015W

Product ID	Positions	Color	Circuit Protection	Product Dimension (W x H x D)	Panel Cut-out (W x L)	Note
AOS3010	6	Dark Gray	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	
AOS3011	8	Dark Gray	Circuit Breakers	114 x 238 x 75 mm	96 x 217 mm	
AOS3013	4	Dark Gray	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	with USB Charger & Cig. Lighter Socket
AOS3014	4	Dark Gray	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	with Battery Gauge & Cig. Lighter Socket
AOS3015	4	Dark Gray	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	with Battery Gauge & USB Charger
AOS3010W	6	White	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	
AOS3011W	8	White	Circuit Breakers	114 x 238 x 75 mm	96 x 217 mm	
AOS3013W	4	White	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	with USB Charger & Cig. Lighter Socket
AOS3014W	4	White	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	with Battery Gauge & Cig. Lighter Socket
AOS3015W	4	White	Circuit Breakers	114 x 191 x 75 mm	96 x 166 mm	with Battery Gauge & USB Charger

Accessories

AOS1013

Illuminated(LED) Rocker Car Switch

DC 12V 20A
DC 24V 10A
SPST ON-OFF

AOC4030

USB Charger Socket (2 Ports)

Marine Grade with cap
DC 5V 3.4A

AOC4011

Marine Grade Power Outlet

Marine Grade with cap
DC 9-36V, 20A

AOC4019

USB Charger Socket (2 Ports)

Marine Grade with cap
DC 5V 3.1A
DC 5V 4.8A

Any 1-1/8" Sockets

See page 64 for more.

Curved Water-resistant Switch Panel

Upgraded streamline switch panel design with backlight for labels

Description

Coming with the sealed rocker Switches, these switch panels are one of our most weather-proof switch panel series. The modular mini panels allow consumers to build switch panels with their own customized features. With modern curved faceplate design and new backlighted label features, these panels are stylish, high performance switch panels with complete features.

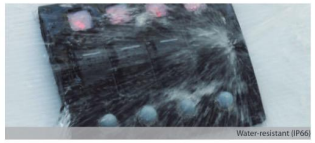
Backlight modules for label stickers

Vertical or horizontal installations

Features

- New modern curved and compact panel design (15% smaller than AOS30xx series)
- Mini modular panels allow free combinations at consumers' side
- Backlight modules for labels, allowing easy operation in darkness
- IP66–protect against strong water jets
- Push-reset circuit breakers with rubber boots
- Illuminated (LED) rocker switches with dual voltage rating (12V / 24V)
- Watertight mounting gasket included
- Square shaped label stickers (30pcs) allow vertical or horizontal installation

Mini modular panels allow freedom for customized panels


Water-resistant (IP66)

Specifications

- **Faceplate** | Curved shaped plastic (ASA)
- **Circuit Protection** | Circuit Breakers
- **Switch Ratings** | 20A @ DC 12V / 10A @ DC 24V (Dual Voltage)
- **Panel Rating** | Maximum Cumulative Amp: 45A*
- **Notes** | IP66 CE

* Max possible Amperage for each panel is determined by the lower of total switches ratings or the Max Cumulative Amperage listed above.

Product Series

AOS3019

AOS3030

AOS3031XX

AOS3034XX

Product ID	Positions	Color	Circuit Protection	Product Dimension (W x H x D)	Panel Cut-out (W x L)	Note
AOS3019	4	Black	Circuit Breakers	114 x 133 x 75 mm	101 x 120 mm	
AOS3030	6	Black	Circuit Breakers	114 x 188 x 75 mm	101 x 166 mm	
AOS3031XX	-	Black	Circuit Breakers	114 x 58 x 56 mm	105 x 45 mm	2 Gang Mini Socket Panel*
AOS3034XX	1	Black	-	114 x 54 x 75mm	103 x 42 mm	1P Switch Panel for special purposes

* See table below for available sockets combinations

Socket options for AOS3031XX	
Product ID	Socket Mounted
AOS3031PP	AOC4011 x2
AOS3031PU	AOC4011 + AOC4015
AOS3031PV	AOC4011 + AOC4019
AOS3031PG	AOC4011 + AOC4000
AOS3031XX	Any combination of two

AOS3034 Series	
Product ID	Socket Mounted
AOS3034BP	Bilge Pump Switch Panel
AOS3034BA	Bilge Pump Switch Panel with Alarm
AOS3034DW	Deck Wash Control Panel
AOS3034WC	Windlass Control Panel

* See page 8 for more details of AOS3034 Series

Accessories

AOS1013

Illuminated(LED) Rocker Car Switch

DC 12V 20A
DC 24V 10A
SPST ON-OFF

AOC4030

USB Charger Socket (2 Ports)

Marine Grade with cap
DC 5V 3.4A

AOC4011

Marine Grade Power Outlet

Marine Grade with cap
DC 9-36V, 20A

AOC4019

USB Charger Socket (2 Ports)

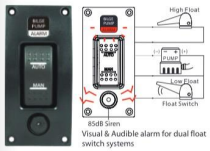
Marine Grade with cap
DC 5V 3.1A
DC 5V 4.8A

Any 1-1/8" Sockets

See page 64 for more.

AOS3034 1 Gang Curved Switch Panel Series

Bilge Pump Switch Panel with Alarm
AOS3034BA ON-OFF-ON
AOS3034BAM ON-OFF-(ON)



Visual & Audible alarm for dual float switch systems

Features

- Modern design bilge pump panel with visual and audible alarm (85dB Siren)
- Activates alarms and starts pump automatically when water reaches 2nd (high) float switch
- IP67 Sealed Switch and water-resistant Siren
- Backlight label module allowing easy recognition in darkness
- Fit perfectly with AOS30 series regular panels

Specifications

- Faceplate | Curved shaped plastic (ASA)
- Dimensions | 114 x 54 x 75mm
- Circuit Protection | Pre-installed ATP Fuse 20A
- Switch Function | ON-OFF-ON(AOS3034BA) / ON-OFF-(ON)(AOS3034BAM)
- Switch Rating | 20A @ DC 12V
- Notes | IP66 CE

Curved Design Single Branch (1P) Switch Panel
AOS3034XX

AOS3034ST

AOS3034DT

AOS3034DW

AOS3034WC

AOS3034BP

Features

- Blank 1P panel that goes well with other AOS30 series panels
- Sealed IP67 switch with dual (12-24V) voltage rating
- Backlight label module allowing easy recognition in darkness
- 5 pcs assorted label stickers included
- Various Switch functions available

Specifications

- Faceplate | Curved shaped plastic (ASA)
- Dimensions | 114 x 54 x 75mm
- Circuit Protection | Circuit Breaker 20A
- Switch Function | See Table
- Switch Rating | 20A @ DC 12V / 10A @ DC 24V (Dual Voltage)
- Notes | IP66 CE

Blank Panels

Product ID	Type	Switch Function	Note
AOS3034ST	SPST	ON-OFF	Blank panel with 5pcs label stickers
AOS3034STM	SPST	(ON)-OFF	Blank panel with 5pcs label stickers
AOS3034DT	SPDT	ON-OFF-ON	Blank panel with 5pcs label stickers
AOS3034DTM	SPDT	(ON)-OFF-ON	Blank panel with 5pcs label stickers
AOS3034DTM2	SPDT	(ON)-OFF-(ON)	Blank panel with 5pcs label stickers

Functional Panels

Product ID	Type	Switch Function	Note
AOS3034DW	SPDT	ON-OFF	Deck Wash Panel
AOS3034WC	SPDT	(ON)-OFF-(ON)	Windlass Control Panel
AOS3034BP	SPDT	ON-OFF-ON	Standard Bilge Pump Panel
AOS3034BPM	SPDT	ON-OFF-(ON)	Standard Bilge Pump Panel

Label Stickers for AOS3030 / AOS3034 Series
AOS3035

- 30pcs assorted Water-proof PC membrane label stickers
- Designed for SP32 / SP33 backlight modules
- Customizable to local languages or applications

Curved Water-resistant USB Panel
AOS3043

Features

- Double port USB charger (AOS4030) fully compatible with latest iPad, iPhone and smartphones
- Backlight label module allowing easy recognition in darkness
- Fit perfectly with AOS3035 series regular panels

Specifications

- Faceplate | Curved shaped plastic (ASA)
- Dimensions | 114 x 54 x 75mm
- Circuit Protection | Circuit Breaker 5A
- Input | DC 12-24V
- Output | DC 5V 3.4A
- Notes | CE FC IP66

Curved Water-resistant Voltage Meter Panel
AOS3043VM – Voltage Meter Panel
AOS3043DM – Dual (Voltage & Current) Meter Panel

AOS3043VM AOS3043DM

Features

- Digital meters with 3 LED displays
- Backlight label module allowing easy recognition in darkness
- Fit perfectly with SP33 series regular panels

Specifications

- Faceplate | Curved shaped plastic (ASA)
- Dimensions | 114 x 54 x 75mm
- Input Range | DC 2.5V – 30V (SP3331VM) / DC 4.5V – 30V, 0 – 15A (SP3331DM)
- Notes | CE IP66

Modern Design Toggle Switch Panel

Compact economical toggle switch panel with fuse protection

AOS3000

AOS3001P

AOS3001U

AOS3001G

AOS3000W

AOS3001P-W

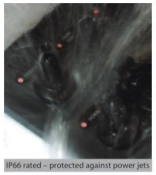
AOS3001U-W

AOS3001G-R-W

Product ID	Positions	Color	Circuit Protection	Product Dimension (W x H x D)	Panel Cut-out (W x L)	Note
AOS3000	6	Dark Grey	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	
AOS3001P	5	Dark Grey	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	with Cig. Lighter Socket
AOS3000U/V	5	Dark Grey	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	USB Charger (U: 1 Port V:2Port)
AOS3001G-R	5	Dark Grey	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	with Digital Battery Gauge
AOS3000W	6	White	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	
AOS3001P-W	5	White	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	with Cig. Lighter Socket
AOS3001U-W	5	White	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	USB Charger (U: 1 Port V:2Port)
AOS3001G-R-W	5	White	ATP Fuses	107 x 95 x 95 mm	87 x 78 mm	with Digital Battery Gauge

Features

- Compact panel size
- Unique trendy faceplate design (two colors available: Dark Gray /White)
- Heavy duty metal toggle switches with water-resistant PVC boot
- Water-tight mounting gasket included
- LED indication when device turned ON
- 28pcs assorted label stickers included
- IP66 – Protected against powerful water jets from all directions (when mounted)
- Spray-proof in-line ATP/ATC fuse holders with fuses pre-installed


IP66 rated – protected against power jets

LED indication when switched on

Specifications

- **Faceplate** | Sleek Design Plastic (ABS)
- **Circuit Protection** | In-line 15A ATP fuses pre-installed (per 2 branches)
- **Switch Ratings** | 15A @ DC 12V / 10A @ DC 24V (Dual Voltage)
- **Panel Rating** | Max Cumulative Amp: 25A per 2 branches*
- **Notes** | IP66 CE

* Max possible Amperage for each panel is determined by the lower of total switches ratings or the Max Cumulative Amperage listed above.

Compact Size - 40% Smaller than AOS3049

Optional Push Button version available

Bakelite Toggle Switch Panels with Fuses

AOS3045 AOS3049

Product ID	Dimensions (W x H x D)	Panel Cut-out(W x L)
AOS3045	114 x 92 x 35 mm	90 x 75 mm
AOS3049	114 x 161 x 35 mm	90 x 140 mm

Features

- Classic toggle switch
- Fuse holders with 5A fuses pre-installed
- Optional anti-splash PVC boots available

Specifications

- Faceplate | Bakelite
- Circuit Protection | Fuses
- Switch Ratings | DC 12V / 24V
- Panel Rating | Maximum Cumulative Amp: 15A
- Notes | CE

Windlass Controlling Panel with LED

AOS3053

Product ID	Dimensions (W x H x D)	Panel Cut-out(W x L)
AOS3053	52 x 76 x 35 mm	40 x 45 mm

Features

- Momentary (ON)-OFF-(ON) Toggle Switch with PVC Boot
- Red Lamp Indicator

Specifications

- Faceplate | Aluminum Plate
- Circuit Protection | _
- Switch Ratings | DC 12V
- Panel Rating | 15A @ DC 12V
- Notes | CE

3-Way Bilge Pump Switch Panel

AOS3050AF/BF

AOS3050AF : ON-OFF-ON Bilge Pump Switch Panel with Fuse (AUTO-OFF-AUTO)
AOS3050BF : ON-OFF-(ON) Bilge Pump Switch Panel with Fuse (AUTO-OFF-MANUAL)

Product ID	Dimensions (W x H x D)	Panel Cut-out(W x L)
AOS3050AF/BF	90 x 50 x 45 mm	75 x 38 mm

Features

- 3-Way toggle switch (ON-OFF-ON) with LED indication
- Fuse holders with pre-installed fuses
- Optional anti-splash PVC boots available

Specifications

- Faceplate | Plastic (ABS)
- Circuit Protection |
- Switch Ratings | Fuse
- Panel Rating | DC 12V
- Notes | CE Maximum Cumulative Amp: 5A

Ignition Switch Panel

AOS3051

Product ID	Dimensions (Wx H x D)	Panel Cut-out(W x L)
SP4010	69 x 69 x 45mm	40mm

Features

- LED indicator
- 2 Keys included

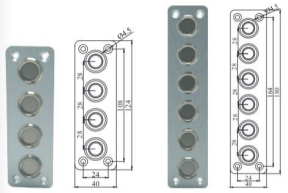
Specifications

- Faceplate | Nylon 66
- Circuit Protection | _
- Switch Ratings | DC 12V
- Panel Rating | 10 A

Brushed silver switch panel

New Product

High current stainless steel metal switch pane

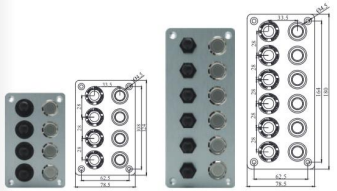


Specifications

- Materail Laser cutting oxidation drawing process aluminum
- Ratings DC 12V
- Maximum Cumulative Amp 16A
- Switch function ON-OFF
- 40 pcs Label Sticker
- LED Color Red/Blue/Wihte/Green

Product ID	Fuse Holder	Circuit Protection	Product Dimensions	Panel Dimensions
AOS4113-4SP	15A×2	ATP Fuses	124×40×90 mm	124×40×2 mm
AOS4113-6SP	15A×3	ATP Fuses	180×40×90 mm	180×40×2 mm

High current stainless steel metal switch pane With Circuit Breakers

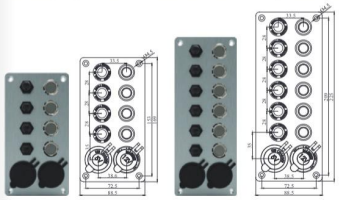


Specifications

- Materail Laser cutting oxidation drawing process aluminum
- Ratings DC 12V
- Maximum Cumulative Amp 16A
- Switch function ON-OFF
- 40 pcs Label Sticker
- LED Color Red/Blue/Wihte/Green

Product ID	Circuit Breakers	Circuit Protection	Product Dimensions	Panel Dimensions
AOS4213-4SP	5A×2 10A×1 15A×1	Push-Button Circuit Breakers	124×78.5×105 mm	124×78.5×2 mm
AOS4213-6SP	5A×2 10A×2 15A×2	Push-Button Circuit Breakers	180×78.5×105 mm	180×78.5×2 mm

USB & Cig High current stainless steel metal switch pane With Circuit Breakers



Specifications

- Materail Laser cutting oxidation drawing process aluminum
- Ratings DC 12V
- Maximum Cumulative Amp 16A
- Switch function ON-OFF
- USB Socket Rating 5V 4.8A
- Cig Socket Rating 12V 20A/24V 10A
- 40 pcs Label Sticker
- LED Color Red/Blue/Wihte/Green

Product ID	Circuit Breakers	Circuit Protection	Product Dimensions	Panel Dimensions
AOS4313-4SP	5A×2 10A×1 15A×1	Push-Button Circuit Breakers	169×88.5×115 mm	169×88.5×2 mm
AOS4313-6SP	5A×2 10A×2 15A×2	Push-Button Circuit Breakers	225×88.5×115 mm	225×88.5×2 mm

Marine Grade Switches

- Large Current (20A) Anti-Vandal Stainless Steel Push-Button Switch with LED Ring
- Anti-Vandal Stainless Steel Push-Button Switch with LED Ring
- Start Push-Button Switch
- Water-resistant Sealed Rocker Switches
- Water-resistant Rocker Switches
- Marine Toggle Switch with Plastic Handle Bar
- Heavy Duty Brass Toggle Switch Series

Marine Grade Switches

Weather-proof switches specially designed for outdoor environments

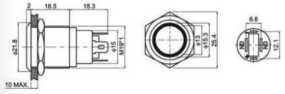
Large Current (20A) Anti-Vandal Stainless Steel Push-Button Switch with LED Ring
AOS1043 Series - with LED light ring

PATENTED US TW CH

AOS1043

Product Series		
Product ID	Voltage Rating	Switch Function
AOS1043TL-W AOS1043TL-G	DC 12V-24V	ON-OFF (Latching)
AOS1043TL-R 	DC 12V-24V	ON-OFF (Latching)
AOS1043T-W AOS1043T-G	DC 12-24V	(ON)-OFF (Momentary)
AOS1043T-R AOS1043T-B	DC 12-24V	(ON)-OFF (Momentary)

R : Red / B : Blue / W : White / G : Green



Features

- Market-leading 20A Capability (No more relays!)
- Same compact size as mainstream anti-vandal switches in market
- Durable CNC Stainless Steel housing
- 0.250" Quick connect terminals
- LED light rings configurable to be push-on (power indication) or always on (back lighting)
- IP67 – protected even under temporary water immersion

Additional Features

- Backlight button version
- 5 pcs PC membrane label stickers included
- Additional 40pcs assorted label stickers sold separately (AOS-ST-1)

5 pcs labels included with series

Label stickers for Series
AOS-ST-1

- 40 pcs assorted label sticker
- Scratch resistant, water-proof PC membrane material
- Customized version also possible
- Back printing for better durability

Specifications

- Rating | DC 12V 20A / DC 24V 10A
- Electrical Life | > 20,000 cycles
- Operation Temperature | -20°C ~ +55°C

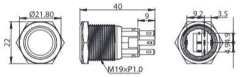
Anti-Vandal Stainless Steel Push-Button Switch with LED Ring

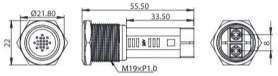
AOS1090 Series

AOS1090T-B

AOS1090T-R

AOS-BZ-1R





Product Series			
Product ID	Voltage Rating	LED Color	Switch Function
AOS1090TL-R	DC 12V	Red	ON-OFF (Latching)
AOS1090T-R	DC 12V	Red	(ON)-OFF (Momentary)
AOS1090TL-B	DC 12V	Blue	ON-OFF (Latching)
AOS1090T-B	DC 12V	Blue	(ON)-OFF (Momentary)
AOS1090TL-R-24V	DC 24V	Red	ON-OFF (Latching)
AOS1090T-R-24V	DC 24V	Red	(ON)-OFF (Momentary)
AOS1090TL-B-24V	DC 24V	Blue	ON-OFF (Latching)
AOS1090T-B-24V	DC 24V	Blue	(ON)-OFF (Momentary)
AOS-BZ-1R	DC 12V	Red/flashing	Buzzer

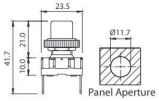
- Up to Double Pole NO/NC/COM Terminals (5 or 8 Terminals)
- Durable stainless steel housing and button
- LED light rings configurable to be push-on (power indication) or always on (back lighting).
- IP67 – protected agasint even under temporary water immersion (IP50 for the Buzzer PB-BZ-1R)

Specifications

- Rating | DC 12V 5A / DC 24V 5A
- Electrical Life | > 50,000 cycles
- Operation Temparture | -20°C ~ +55°C

Starter Push-Button Switch

AOS1091



Panel Aperture

Features

- Quick terminal blades
- High current push button switch
- Water-resistant cap available
- Rating: AC 125V 15A / 240V 10A

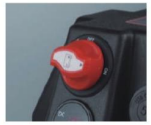
Rubber Boot

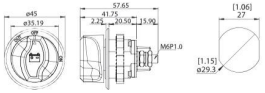
AOS-RB-1

Mini Size 150A Battery Switch

AOK9131

IGNITION PROTECTED





Features

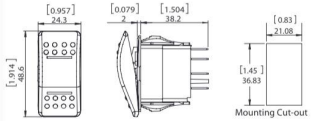
- Unique ergonomic and aesthetic knob design
- Knobs removeable for isolation / safety
- Robust Glass Fiber reinforced Nylon enclosure
- Ultra compact size fits 1-1/8" mounting holes
- ISO8846 Ignition Protected

Specifications

- Cranking Rating (30 Secs) | 500A
- Intermittent Rating (5 mins) | 200A
- Continuous Rating | 150A
- Voltage Rating | 32V
- Terminal Studs | M6
- Note | CE

IP67 Water-resistant Sealed Rocker Switch
AOS10 Series

PATENTED TW CH



Product Series		
Product ID	Type	Switch Function
AOS1001	SPST	(ON)-OFF
AOS1002	SPDT	(ON)-OFF-(ON)
AOS1003	DPST	(ON)-OFF
AOS1004	DPDT	(ON)-OFF-(ON)
AOS1011 ☼	SPST	ON-OFF
AOS1012 ☼	DPST	ON-OFF
AOS1014 ☼☼	SPDT	ON-OFF-ON
AOS1015 ☼☼	DPDT	ON-OFF-ON
AOS1016 ☼☼	SPDT	(ON)-OFF-ON
AOS1017 ☼☼	DPDT	(ON)-OFF-ON
AOS1019 ☼☼	DPDT	ON-ON

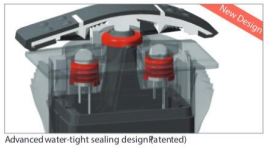
Features

- Fit popular Contura style switch mounting
- Interchangeable actuators with various options
- Available in customized switch function, illuminating and other configurations
- LED illuminated (DC12V/ 24V dual voltage)
- PC Terminals (0.250" Quick Connect Terminals)
- IP67: Water proof even under temporary water immersion
- Exclusive advanced water-tight sealing design (Patented)

IP67 Water proof even undertemporary water immersion

Specifications

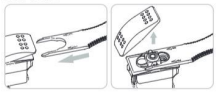
- Rating | DC 12V 20A 24V 10A
- Electrical Life | 20,000~50,000 switch function dependent
- Note | IP67 Patented in TW CH



Advanced water-tight sealing design(Patented)

Actuator Removal Tool for C-7 Switches
AOS-RM-1

How to use



- Used to change AOS10 switch actuators
- Anti-slip grip design

Actuator for AOS10 Switch

- Available stand-alone without switch body
- Available in various colors, lens configurations and printing options
- Lens color available in white, red, amber, green and blue
- Customizable silkscreen printing or label stickers on square lens available

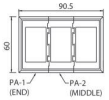
Laser Etched Contour AOS10 Actuator
AOS1030XYS ON-OFF
AOS1031XYS (ON)-OFF

PATENTED TW,CH

- Premium feeling and backlight effects
- Exclusive trendy actuator shape (Patented)
- Laser etching technology allowing even very complicated patterns
- Illuminates on both symbol and label (label illumination configurable to be always on or power indication)
- 100% customizable with low MoQ

X Stands for Symbol illumnation LED color, and Y for Label LED Color
(X is ON only when switch is ON; Y is configurable externally.)

Mounting Panel for AOS10 Series
AOS-PA-1 (End Frame)
AOS-PA-2 (Middle Frame)



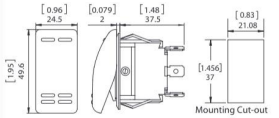
- Allows mounting of multiple switches together
- Cascade as many switches as you like
- Push-in installations

Label Stickers for AOS10 Switch with square lens
AOS-ST-2

- 60 pcs assorted label stickers
- For use with Actuators with white square lens C7A-H3W
- Sold separately

High Power 2 Port USB Charger – Switch Mount
AOS4030 (2.4A + 1A)
AOS4030-4.8A (2.4A + 2.4A)

IP55 Water-resistant Rocker Switch
AOS61/AOS62 Series



Product Series		
Product ID	Type	Switch Function
AOS6124P	SPST	(ON)-OFF
AOS6136P	SPDT	(ON)-OFF-ON
AOS6137P	SPDT	(ON)-OFF-(ON)
AOS6144P	DPST	(ON)-OFF
AOS6166P	DPDT	(ON)-OFF-ON
AOS6167P	DPDT	(ON)-OFF-(ON)
AOS6231P☼	SPST	ON-OFF
AOS6253P☼☼	SPDT	ON-OFF-ON

Features

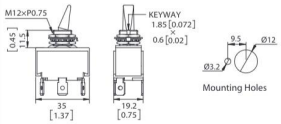
- Robust design to withstand outdoor environments
- Easy-to-press, stylish curved actuator design
- Available in various switch functions and illuminating configurations
- PC Terminals (0.250" Quick Connect Terminals) or Screw Terminals
- LEDs or Lamps available for illuminated C-62 series
- IP55 : Water projected in jets from any direction shall have no harmful effects

Specifications

- Rating | DC 12V 16A 24V 10A
- Electrical Life | 20,000 make and break cycles at full load

Mounting Panel for C-6 Series

Toggle Switch
AOS65/AOS-66 Series



Features

- Available in various switch functions, illuminating and other configurations
- Current rating up to 16A (@12V DC)
- Self-illuminating handle bar (C-66 only)
- Heat-resistant bakelite switch body
- Available in PC (Quick) Terminals or Screw Terminals
- Hidden color lens allowing up to three different illuminating colors(for illuminated C-66 series)

Specifications

- Rating | DC 12V 16A 24V 10A
- Electrical Life | 20,000 make and break cycles at full load

Product Series		
Product ID	Type	Switch Function
AOS1049	SPST	ON-OFF
AOS1050	SPST	(ON)-OFF
AOS1051	SPDT	(ON)-OFF-(ON)
AOS1052 ☼	SPST	ON-OFF
AOS1053 ☼	SPST	(ON)-OFF
AOS1054 ☼	SPDT	(ON)-OFF-(ON)

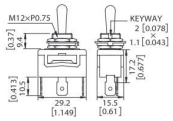
AOS1055-CRG: Tri-color illuminated switch ON-OFF-ON

Rubber Boot
AOS-RB-2

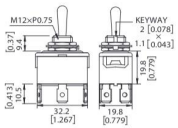
- Water-proof, dust proof rubber boot
- Screw Nuts: M12
- Available in clear/black color

Heavy-Duty Toggle Switch
AOS1059 Series

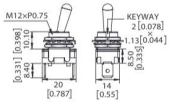
AOS1059-1 / AOS1059-3



AOS1059-6



AOS1059-7



Mounting Holes

Features

- Current rating up to 15A (@12V DC)
- Robust and durable toggle design
- Available in PC (Quick) Terminals or Screw Terminals
- Series-specific nameplates and rubber boot available
- Short Body design saves mounting space (for T-1331 series)

Specifications

- Rating | DC 12V 15 A 24V 10A
- Electrical Life | 50,000 make and break cycles at full load

Product Series		
Product ID	Type	Switch Function
AOS1059-1	SPST	ON-OFF
AOS1059-2	SPST	(ON)-OFF
AOS1059-3	SPDT	ON-OFF-ON
AOS1059-4	SPDT	(ON)-OFF-ON
AOS1059-5	SPDT	(ON)-OFF-(ON)
AOS1059-6	DPDT	ON-OFF-ON
AOS1059-7	SPST	ON-OFF
AOS1059-8	SPST	(ON)-OFF

Rubber Boot
AOS-RB-3

- Water-proof, dust proof rubber boot
- Screw Nuts: M12
- Available in clear/black color