

ABYSS

INFINITE SERIES

FOR TROLLING MOTOR

IT DOESN'T JUST LOOK PRETTY,
IT IS A **COMPREHENSIVE ECOSYSTEM**,
POWERFUL IN MANY WAYS...



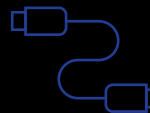
FUNCTIONALITY SAFETY & CONVENIENCE

- **SYSTEM-WISE
IP67**

Fastening screws, sealing strips and a specialized waterproof structure



- **SOLID CONNECTION &
PLUG-AND-PLAY**

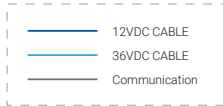


- **ONE-CLICK START**
Chip Controlled
Automated Operation

- **BUILT-IN PRESSURE RELIEF VALVES
& FIRE SUPPRESSION DEVICE**



STARTER



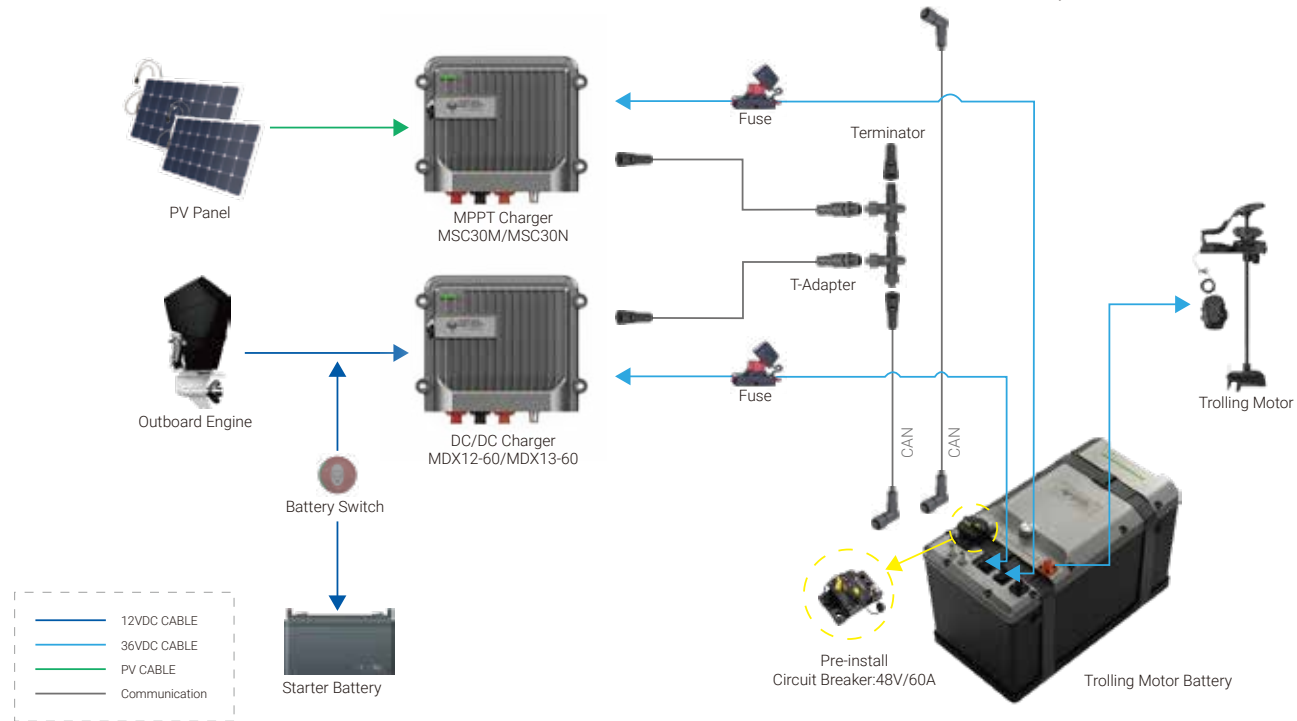
- 24V SYSTEM

SORT	MODEL	P.N.	QTY.
Monitor	X3	9E401-0001	1
DC/DC Charger	MDX12-60	9A602-0004	1
Lithium Battery	FM3	90000-0190	1
Communication Cable kit (XS002-0031)	C1: M12-5Pin(D-D)-1M	30108-0300	1
	C2: M12-5Pin(D-A)-1M	30108-0301	1
	C3: M12-8Pin(A-A)-2M	30108-0302	1
	T-Adapter	30205-0428	1
	Terminator	30205-0437	1
Power Cable Kit	P1: BAT To Trolling Motor	XS002-0013	1
	P2: MDX12 To Charger In1	XS002-0015	1

- 36V SYSTEM

SORT	MODEL	P.N.	QTY.
Monitor	X3	9401-0001	1
DC/DC Charger	MDX13-60	9A602-0003	1
Lithium Battery	FN4	9B201-0001	1
Communication Cable kit (XS002-0031)	C1: M12-5Pin(D-D)-1M	30108-0300	1
	C2: M12-5Pin(D-A)-1M	30108_0301	1
	C3: M12-8Pin(A-AJ-2M	30108-0302	1
	T-Adapter	30205-0428	1
	Terminator	30205-0437	1
Power Cable Kit	P1: BAT To Trolling Motor	XS002-0013	1
	P6: MDX13 To Charger In1	XS002-0016	1

ADVANCED



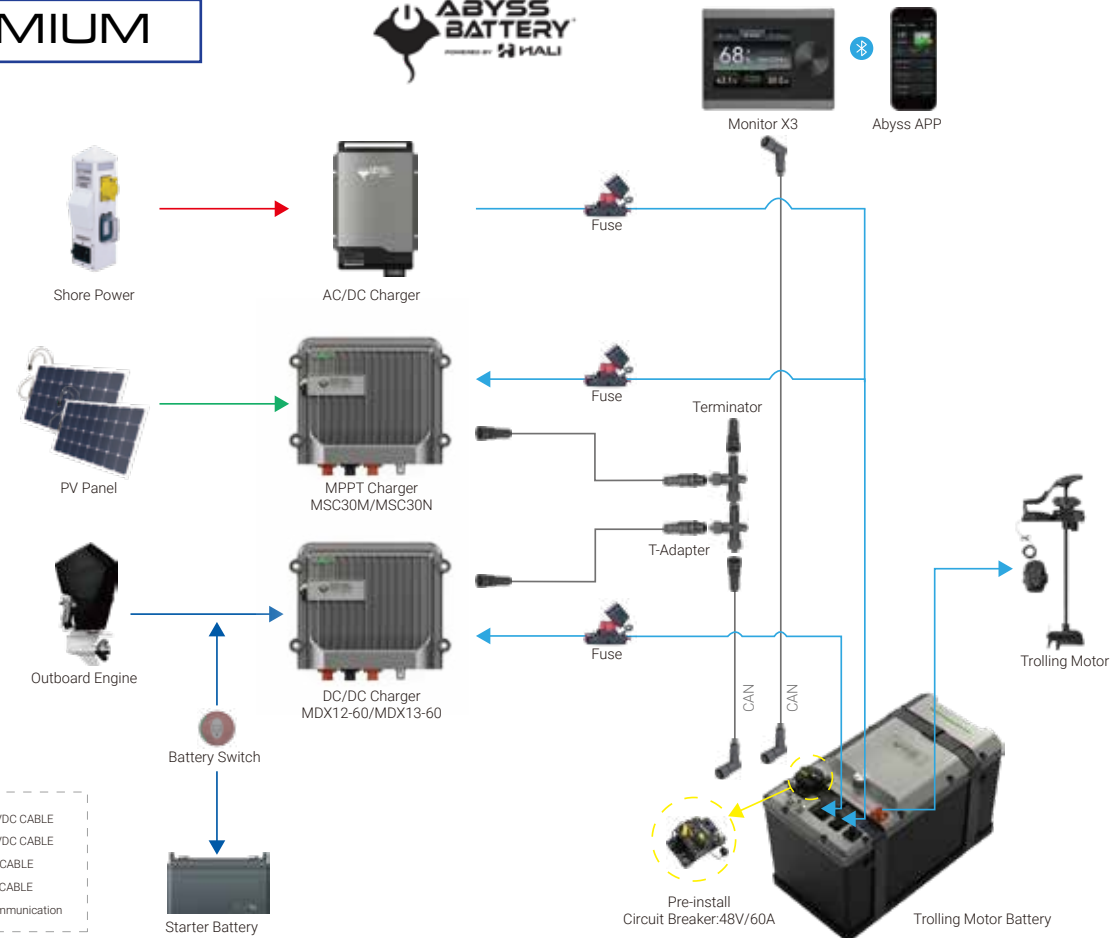
24V SYSTEM

SORT	MODEL	P.N.	QTY.
Monitor	X3	9E401-0001	1
DC/DC Charger	MDX12-60	9A602-0004	1
MPPT Charger	MSC30M	9A501-0002	1
Lithium Battery	FM3	90000-0190	1
Communication Cable kit (XS002-0031)	C1: M12-5Pin(D-D)-1M	30108-0300	1
	C2: M12-5Pin(D-A)-1M	30108-0301	2
	C3: M12-8Pin(A-A)-2M	30108-0302	1
	T-Adapter	30205-0428	1
	Terminator	30205-0437	2
Power Cable Kit	P1: BAT To Trolling Motor	XS002-0013	1
	P2: MDX12 To Charger In1	XS002-0015	1
	P7: MSC To Charger In2		

36V SYSTEM

SORT	MODEL	P.N.	QTY.
Monitor	X3	9E401-0001	1
DC/DC Charger	MDX13-60	9A602-0003	1
MPPT Charger	MSC30N	9A501-0001	1
Lithium Battery	FN4	9B201-0001	1
Communication Cable kit (XS002-0031)	C1: M12-5Pin(D-D)-1M	30108-0300	1
	C2: M12-5Pin(D-A)-1M	30108-0301	2
	C3: M12-8pin(A-A)-2M	30108-0302	1
	T-Adapter	30205-0428	1
	Terminator	30205-0437	2
Power Cable Kit	P1: BAT To Trolling Motor	XS002-0013	1
	P6: MDX13 To Charger In1	XS002-0016	1
	P7: MSC To Charger In2		

PREMIUM



24V SYSTEM

SORT	MODEL	P.N.	QTY.
Monitor	X3	9E401-0001	1
DC/DC Charger	MDX12-60	9A602-0004	1
MPPT Charger	MSC30M	9A501-0002	1
AC/DC Charger			1
Lithium Battery	FM3	90000-0190	1
Communication Cable kit (XS002-0031)	C1: M12-5Pin(D-D)-1M	30108-0300	2
	C2: M12-5Pin(D-A)-1M	30108-0301	1
	C3: M12-8Pin(A-A)-2M	30108-0302	1
	T-Adapter	30205-0428	2
	Terminator	30205-0437	1
Power Cable Kit	P1: BAT To Trolling Motor	XS002-0013	1
	P2: MDX12 To Charger In 1	XS002-0015	1
	P3: AC Charger To Charger In2	XS002-0012	1
	P4: MSC To MPPT Connector	XS002-0014	1

36V SYSTEM

SORT	MODEL	P.N.	QTY.
Monitor	X3	9E401-0001	1
DC/DC Charger	MDX13-60	9A602-0003	1
MPPT Charger	MSC30N	9A501-0001	1
AC/DC Charger			1
Lithium Battery	FN4	9B201-0001	1
Communication Cable kit (XS002-0031)	C1: M12-5Pin(D-D)-1M	30108-0300	2
	C2: M12-5Pin(D-A)-1M	30108-0301	1
	C3: M12-8Pin(A-A)-2M	30108-0302	1
	T-Adapter	30205-0428	2
	Terminator	30205-0437	1
Power Cable Kit	P1: BAT To Trolling Motor	XS002-0013	1
	P6: MDX13 To Charger In1	XS002-0016	1
	P3: AC Charger To Charger In2	XS002-0012	1
	P4: MSC To MPPT Connector	XS002-0014	1

BENEFITS OF LITHIUM BATTERIES FOR TROLLING MOTORS

Still battling between AGM or lithium battery? There are advantages about lithium battery you have to know to help you make the decision.

1. Lithium batteries consistently deliver full power output regardless of their charge level, whether at 20% or 100%, unlike other batteries that produce less amperage as they drain, which slows down the trolling motor.
2. Another disadvantage of conventional batteries is that frequently draining them too much can significantly reduce their lifespan. In contrast, lithium batteries are unaffected by this issue; you can discharge them to 10% and recharge them without causing damage, which is a significant advantage.

3. Lithium batteries have a significantly higher cycle count, allowing for approximately 5000 charge and discharge cycles, which is up to 10 times more than AGM batteries. For frequent users, such as avid fishers, lithium batteries offer much longer lifespan and better value over time.
4. Lithium-ion batteries retain their charge much longer, and charge faster. They have an impressive capacity, providing extended usage time without losing charge. This means less frequent maintenance is needed, and they can be stored for months while maintaining nearly their full charge.
5. A major advantage of lithium batteries, which is particularly appealing, is their significantly reduced weight. While AG5M batteries weigh 45-50 pounds, lithium batteries weigh only 20-30 pounds.

ADVANTAGES TO USE ONE SINGLE 36V OR 24V FOR YOUR TROLLING MOTOR

An often overlooked benefit of lithium batteries is their availability in various voltage configurations. Unlike traditional batteries, which require multiple 12V units for a 24V or 36V trolling motor, lithium batteries can be purchased in 12V, 24V, or 36V configurations. This means you can use a single lithium battery instead of multiple ones, saving significant space and weight. For those who prioritize speed and weight efficiency in their boats, opting for a lithium battery is an obvious choice, as it replaces up to 150 pounds of traditional batteries with just one 30-pound battery.

I understand some may hesitate due to the initial investment in a single 36V lithium battery. However, the enduring and consistent performance makes it a worthwhile investment over time.

Additionally, consider the savings in time and installation costs associated with multiple batteries. Opting for a single 36V lithium battery is a smart and efficient choice.

RECOMMENDATIONS FOR BATTERY STORAGE

To optimize battery storage and minimize self-consumption, consider the following recommendations:

- For Short-Term Storage (up to 6 months)
- Adjust the State of Charge (SOC) to 20-30%.

- For Long-Term Storage (1-2 years)
- Maintain the SOC at 30-50%.
 - Ambient Temperature: 32°F- 95°F (0°C -35°C) to maintain battery health and performance.

SEAL LITHIUM BATTERY



01

- 25.6V/100Ah, 38.4V/105Ah
- 3500 Cycle Life, DoD 80% @77°F (25°C)
- 0.5C Charging/ 0.5C Discharging
- Sophisticated BMS specially for fishing boats
- Built-in fire suppression device
- Built-in heater for four-season operation
- Pre-assembled circuit breaker
- Patented quick and solid connectors
- Support RS485, CAN communication
- Dimension (L x W x H) (Max) & Weight (Max):
 - 24V/100Ah: 17.91 x 10.13 x 8.67", 52.91 lbs
455 x 257 x 220mm, 24 kg
 - 36V/105Ah: 17.91 x 10.13 x 11.43", 70.55 lbs
455 x 257 x 290mm, 32kg
- IP67 Waterproof Design

CIRCUIT BREAKER

- 48VDC/60A
- Meet SAEJ1428, J1625, J553($\leq 200A$), J1171, UL1500 (Ignition protected)

CRYSTAL MONITOR X3



SHARK BI-DIRECTIONAL CHARGER



02

An integrated screen for easy access to all the data of the power system, including battery state of charge (voltage, current, SOC%), and others.

- System monitors with active data
- Built-in battery switch
- Built-in Bluetooth to support mobile APP
- CAN compatible
- IP67 Waterproof Design

03

- 12V/24V and 12V/36V
- Output Power: 720W
- Non-isolation design with a max efficiency of 95%
- Lithium battery compatible
- IP67 quick connector, anti-vibration
- Natural-cooling
- CAN communication
- IP67 Waterproof Design

MANTA MPPT CHARGER



04

- Boost MPPT, 24V/36V 30A
- Max. Conversion Efficiency $\geq 97.2\%$
- Max. MPPT Efficiency $\geq 99.9\%$
- Automatically adapt on 24V/ 36V battery
- CAN communication
- Wide Operation Temperature Range: $-40\sim 140\text{ }^{\circ}\text{F}$ ($-40\sim 60\text{ }^{\circ}\text{C}$)
- Quick connector w. anti-vibration
- Natural-cooling
- IP67 Waterproof Design

MARLIN AC/DC CHARGER



05

- 220Vac, 24 V/20 A, 36V/15A
- Active PFC featuring smaller and higher efficiency, max 88%
- Sophisticated premium II multiple stages charging algorithm for lead acid battery
- Suitable for lithium batteries
- Automatic temperature compensation cahrging
- Remote is optional
- Silent Design

QUICK CONNECT CABLE KITS (OPTIONAL)

- IP67 protection
- Available in multiple terminal types & cable lengths
- Up to 70 % labor and cost saving, design to reduce skill level for each installation
- More solid and reliable connection

POWER CABLE KIT

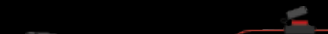
- Trolling Motor



- DC/DC Charger



- MPPT Charger
or AC/DC Charger



COMMUNICATION CABLE KIT



PICOLLO DIGITAL SWITCHING

01 CORAL MASTER



MC10

Total Current: 80A
8 Channels x 10A
2 Channels x 30A



MC16

Total Current: 120A
16 Channels x 10A

MASTER MODULE CONTROLS:

- Light-dimming & soft start
- Electronic over-current protection and undercurrent detection, configurable fuse size
- Integrated manual control & pump running detection
- Integrated wiper and horn control
- Support multi-switch signal detection, liquid level, and fuel level sensors
- Built in Bluetooth for mobile APP to configure the system
- NMEA2000, CAN, RF integrated protocols

02 SYSTEM SOFTWARE SHOWCASE



- User-friendly: DIY Programmable on laptops, pads, mobile phones
- Auto-check and responsive warning system enhance safety
Self-define modes catered to your preferences
- After Service Traceability: System configuration diagrams
exportable for archives
Suitable for boat batch production

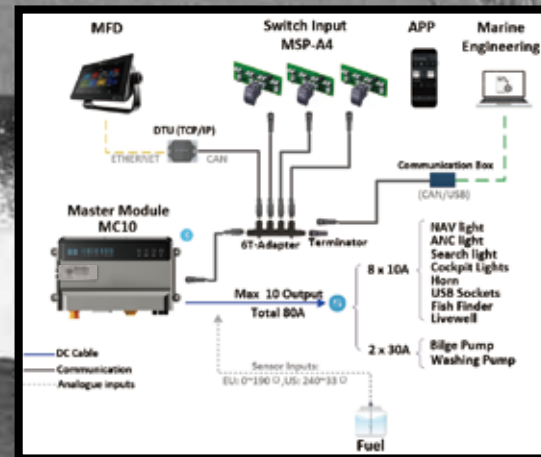
More functions:

- One touch with multi-channel control, easy to set up scenarios;
- Lighting settings, soft start and dimmable as how you want the vibe to be;
- Interlock mechanism, e.g., Fresh water pump turns off and alarm sounds when freshwater low level is detected;
- And more to discover...

03 MARINE SWITCH PANEL MSP A4/ MSP-B4



- Built-in PCB, Rocker Switch/ Push Button
- 4-way switch with indicator light
- Fully programmable
- IP65 waterproof



• PICOLLO SYSTEM

SORT	MODEL	P.N.	QTY.
Master Module	MC10		1
Switch Input	MSP-A4		3
Data Transfer Unit	DTU (Optional)		1
Communication	C1: M12-5Pin-1M		4
Cable kit	6T-Adapter Terminator		1 1
Power Cable Kit	P1: 2AWG/1.5M N1: 16AWG/1.5M P2: 14AWG/0.3M P2: 8AWG/0.3M		1 1 1 1