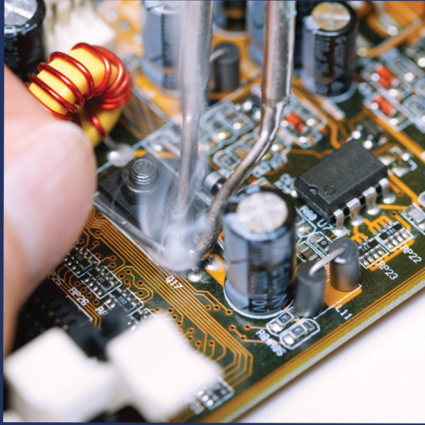


**POWERMANIA**<sup>®</sup>



## Product Catalog

Innovation  
Precision  
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# TURBOMARINE E2-SERIES

## A Rugged, Versatile Charger for Marine Applications

The Turbo Marine E2 Series battery charger is a compact, all-aluminum, epoxy-sealed waterproof unit, specifically designed for recharging 12V batteries, even fully depleted batteries, in marine applications and other harsh environments. The Turbo M-E2 comes with a battery selector for precisely recharge three types of 12V batteries - Lead Acid, Pure Lead AGM, and Lithium-Ion batteries. Thanks to Turbo M-E2's Adaptive Loading technology, this charger automatically allocates more charging power to the weaker battery, for faster overall charging cycles. Plus, the unit features Three-Stage Smart Charge and delivers full charging power even when AC input is compromised (as low as 90V). With its simple, intuitive operation, the Turbo M-E2 helps maximize battery life, so you can enjoy your time on the water without having to worry about running low on power.



M106E2 | M108E2 | M208E2  
6 7/8" (L) x 4 7/8" (W) x 2 5/8" (H)

M115E2 | M215E2 | M315E2  
8 5/8" (L) x 6 7/8" (W) x 3" (H)

- All aluminum case
- Epoxy-sealed for true, long-term waterproof
- Automatic 3-Stage Smart Charge
- Adaptive Loading - More power to weaker batteries
- Selectable Profile: Lead-acid/AGM, LiFePO4, AGM+
- Charge deeply-depleted 0-volt batteries
- 100% output @ 90V AC



Feature Highlight: Adaptive Loading (available in both **TURBOMARINE-V3** and **TURBOMARINE-E2**)

The **Adaptive Loading** feature adjusts the charger's output level automatically and dynamically on each output bank. This function allows more charging power goes to the more depleted battery, and less power goes to the battery that is closer to full charge.

In Scenario 1 (left chart), the two batteries have a similar state of charge. The Turbo M-E2 charger allocates approximately even 50% of its total output to each battery. In Scenario 2 (right chart), the first battery is close to full charge, but the second battery is deeply depleted. In this case, Adaptive Loading allocates 10% of its charging amperage to the first battery and the rest 90% to the discharged one.

In both scenarios, the charger uses its full output - maximum amperage. Unlike chargers with fixed output-per-bank, the Turbo Marine charges all connected batteries in the shortest time possible.

\* Due to safety precautions, the maximum current is limited to 25 Amp per output.

Model #	Manufacturer's P/N	# 12V Output	Max. Output	Battery System	Weight
M106E2	57201	1	6 Amps	1*12V	5.0 lb
M108E2	57202	1	8 Amps	1*12V	5.1 lb
M208E2	57203	2	8 Amps	2*12V   1*24V	5.6 lb
M115E2	57204	1	15 Amps	1*12V	6.5 lb
M215E2	57205	2	15 Amps	2*12V   1*24V	7.0 lb
M315E2	57206	3	15 Amps	3*12V   1*36V	7.5 lb

# TURBOM V3-SERIES

## Turbo MV3 – The Next Generation Marine Battery Charger

Powermania's Turbo MV3 series waterproof battery chargers are the new and improved version from the class-leading Turbo MV2 chargers. Featured a brand new look and all-aluminum case, the V3's carry over all the key features from the V2's - such as the ability to charge fully depleted batteries and move charging power to the weakest bank. The new charger is stronger against physical damage in rough water applications, and its enhanced heat dissipation design further improves the charger's performance and longevity. This highly reliable unit is the top choice for tournament fishing and other critical applications where battery failure is not an option.



M212V3 | M220V3 | M320V3  
8 5/8" (L) x 6 7/8" (W) x 3" (H)

M230V3 | M330V3 | M430V3  
M240V3 | M340V3 | M440V3  
10 3/4" (L) x 8 3/8" (W) x 3 5/8" (H)

- All the features of Turbo M-E2 Series
- + Universal (120/240V) AC Input
  - + Individual Charge Status Light
  - + Individual DC Connection Check Light
  - + Active Cooling (20A and higher models)
  - + Auto-Restart in Float Mode



The Turbo M-E2 and Turbo M-V3 charge batteries in three sequential stages: Bulk, Absorption, and Monitor / Float. This method is proven to bring a battery to its fullest charge, as well as maintain a fully charged battery from self-discharge.

The M-V3 has a Battery Status Monitoring Feature in which the charger actively senses voltage on battery #1 (battery connected by output #1). If it drops below 12.6V, the charger will automatically restart a new charge cycle. After the Charge Status lights turn green, it is safe to keep the charger plugged in indefinitely to maintain the battery's full charge.

LED	Charge Mode	Absorption	Float
L. Acid   AGM	Lead-Acid   AGM	14.5 V DC	13.4 V DC
14.6CV	14.6 CV (LiFePO4)	14.6 V DC	0 V DC
AGM+	AGM+	14.8 V DC	13.6 V DC

Model #	Manufacturer's P/N	# 12V Output	Max. Output	Battery System	Weight
M212V3	58301	2	12 Amps	2*12V   1*24V	7.8 lb
M220V3	58303	2	20 Amps	2*12V   1*24V	8.0 lb
M320V3	58304	3	20 Amps	3*12V   1*36V   12+24	8.5 lb
M230V3	58305	2	30 Amps	2*12V   1*24V	14.2 lb
M330V3	58306	3	30 Amps	3*12V   1*36V   12+24	14.8 lb
M430V3	58307	4	30 Amps	4*12V   1*48V   12+36	15.3 lb
M240V3	58308	2	40 Amps	2*12V   1*24V	14.6 lb
M340V3	58309	3	40 Amps	3*12V   1*36V   12+24	15.2 lb
M440V3	58310	4	40 Amps	4*12V   1*48V   12+36	16.0 lb

# TURBOX-SERIES

## Turbo X – The Versatile Dry-Mount On-Board / Portable Battery Charger

The new, sleek-looking Turbo X might be the most versatile battery charger ever designed. Available in 12/24/36/48V models, these chargers can be stacked and linked together to double or triple their charging power\*. Connect units in series to increase charging voltage, and connect them in parallel to add more charging amperage. Adding the optional carrying handle would instantly convert this onboard charger to a portable unit - ideal for mobile service applications. The handle could also carry up to three stacked chargers, which makes a powerful 2000-watt mobile charging station on-the-go. The Turbo X offers multiple charging profiles dedicated for various battery chemistries – including one for Thin Plate Pure Lead (TPPL) AGM and another for Lithium Iron Phosphate (LiFePO4). In addition to selecting voltage settings, this charger offers optional Equalization Cycle to rejuvenate aged or sulfated batteries and prolong their lives.

\* When stacking and linking multiple units, all units have to be the same model.



**3-Stage  
Automatic**



**More Power  
to Weak Battery**



**Non-  
waterproof**



**120/240  
AC Input**



**Stack  
& Link**



**Optional  
Handle**



**Battery  
Equalization**



**Charge  
0-volt batteries**



**Battery Type  
Selector**



X1250 | X2425 | X3617 | X4813

14 3/4" (L) x 7 3/8" (W) x 3 1/2" (H) | 7.2 lb

- Multi-stage, multi-chemistry automatic charge
- Auto-ranging universal (120/240V) AC Input
- Charge 0-volt batteries
- Four battery banks (common ground)
- Thin Plate Pure Lead (TPPL) AGM batteries compatible
- Lithium Iron Phosphate (LiFePO4) batteries compatible



Model #	Manufacturer's P/N	Battery System (DC)	Max. Output	Recom. Max Capacity	Color Code
X1250	60101	12V	50 Amps	500 Ah (12V)	Yellow
X2425	60102	24V	25 Amps	250 Ah (24V)	Red
X3617	60103	36V	17 Amps	170 Ah (36V)	Grey
X4813	60104	48V	13 Amps	130 Ah (48V)	Blue

### Accessories:



Turbo X  
Optional Handle  
(P/N: 10601)



Turbo X  
Optional Stacking Kit  
Two-Unit (P/N 10610)  
Three-Unit (PN/: 10611)



Turbo Marine  
AC Plug port  
Black (P/N: 10501)  
White (P/N: 10502)



DC Extension Kit  
Five Feet (P/N: 10521)  
Ten Feet (P/N: 10522)  
Fifteen Feet (P/N: 10523)

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