

# FOR THE LONG HAUL



## ON-BOARD MARINE BATTERY CHARGERS

Plug it in. Turn in for the night. Then get up the next day and do it all over again. But what happens in the hours when your battery is hooked up to a charger? If that charger has our name on it, a lot. We build them tough and reliable, of course. But we've also packed them with a variety of technologies that keep your batteries protected and running like new for years.

Here's your wake-up call: it's time for a charger that keeps you on the water longer.



### DIGITAL CONTROL

#### THE POWER OF DIGITAL

When you over- or under-charge your battery, you shorten its overall life. Minn Kota chargers are digitally designed to deliver just the right amount of power every time you plug in. No more. No less. Just a longer-lasting, better-performing battery.

#### Automatic Temperature Compensation

Minn Kota chargers adjust for fluctuations in temperature to prevent damaging your battery.



#### Automatic Multi-Stage Charging

By controlling the voltage and current your battery receives at each stage of the charging cycle, you get a fast, safe charge.

#### AC Plug Holder

Keeps plug dry, safe and easily accessible.



#### LED Status Display

Get a quick read on charging progress and more with the LED displays on each of our chargers.



#### Rugged and Waterproof

Our on-board chargers are shock-resistant, vibration-resistant, waterproof and saltwater-tested to fully combat corrosion.

## ON-BOARD ALTERNATOR BATTERY CHARGERS

In addition to our standard chargers, we have Alternator chargers that take your alternator's excess power and redistribute it to your trolling batteries, giving them an extra boost and better battery life.



Minn Kota Alternator On-Board Battery Charger supplements - does not replace - your standard on-board AC battery charger.  
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## PRODUCT SPECIFICATIONS

(The above comparison with On-Board AC Chargers)



SPECIFICATIONS	MK 12C	MK 22C	MK 32C
ITEM #	180201	180202	180203
# OF BANKS	1	2	3
OUTPUT PER BANK* (AMP/12)	10	10	10
TOTAL OUTPUT* (AMP/12)	10	20	30
LENGTH	7"	10-1/2"	14-1/2"
WIDTH	7-1/4"	7-1/4"	7-1/4"
HEIGHT	3-1/2"	3-1/2"	3-1/2"
WEIGHT (POUNDS)	5.0	6.5	8.5

\*Dependent on alternator output.



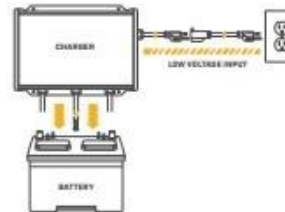
### PRECISION CHARGERS

#### THE PRECISION DIFFERENCE

Next-level battery protection and performance is yours with our Precision on-board chargers. And now, they're built to get even more out of lithium batteries.

#### Low-Line Voltage Compensation

When outlets get overloaded or hooked up to long extension cords, they don't put out the 120 volts they're supposed to. Precision chargers compensate to deliver a fast, consistent charge - no matter what.



#### NEW

#### Built For Lithium

We've redesigned our Precision line to get even more out of your lithium batteries. These advanced chargers can now wake lithium batteries up from standby mode, feature up to five banks, and eliminate damaging under- or over-charging. So you get the most out of your batteries, and more time on the water.

#### Battery Equalization\*

Equalization cleans and protects your battery - and Precision chargers do it automatically, every time you plug in. You can also manually activate a more rigorous cleaning at the push of a button.

\*For Flooded Lead Acid Batteries Only

#### Custom Charging

On each bank of our Precision chargers, you can select which battery type (AGM, flooded lead acid or lithium) you've got plugged in, to dial in a charge that's optimized for that battery.

# BATTERY CHARGER BUYING GUIDE

Finding the Right Charger is as Easy as 1-2-3

## PRECISION ON-BOARD MARINE BATTERY CHARGERS

## DIGITAL ON-BOARD MARINE BATTERY CHARGERS

## PORTABLE CHARGERS\*



**1 HOW MANY BANKS DO YOU NEED?**  
That depends on how many batteries you need to charge – you need one bank for each battery (include your starting battery, if applicable).



1 battery = 1 charging bank

**2 HOW MUCH POWER DO YOU NEED?**  
More powerful charging banks mean faster recharging and faster recovery time.



3 to 5 hours recovery time  
15 amps per bank



4 to 6 hours recovery time  
10 amps per bank



10 to 12 hours recovery time  
5 amps per bank

**3 SELECT YOUR CHARGER**  
Use this chart to pick the features and technologies you want, then choose the model you want. Learn more about our charger technologies on pages 50-51.

SPECIFICATIONS	MK 106PCL	MK 110PCL	MK 212PCL	MK 220PCL	MK 230PCL	MK 318PCL	MK 330PCL	MK 345PCL	MK 440PCL	MK 460PCL	MK 550PCL	MK 108D	MK 210D	MK 220D	MK 315D	MK 330D	MK 440D	MK 105PD	MK 110PD
ITEM #	1831061	1831101	1832121	1832201	1832302	1833181	1833301	1833452	1834401	1834602	1835500	1821085	1822105	1822205	1823155	1823305	1824405	1831050	1830110
# OF BANKS	1	1	2	2	2	3	3	3	4	4	5	1	2	2	3	3	4	1	1
OUTPUT PER BANK (AMPS)	6	10	6	10	15	6	10	15	10	15	10	6	5	10	5	10	10	5	10
TOTAL OUTPUT (AMPS)	6	10	12	20	30	18	30	45	40	60	50	6	10	20	15	30	40	5	10
CHARGE TIME* (HOURS)	10 to 12	4 to 6	10 to 12	4 to 6	3 to 5	10 to 12	4 to 6	3 to 5	4 to 6	3 to 5	4 to 6	10 to 12	10 to 12	4 to 6	10 to 12	4 to 6	4 to 6	10 to 12	4 to 6
LENGTH	9-3/4"	9-3/4"	9-3/4"	9-3/4"	9-1/2"	9-3/4"	9-3/4"	11"	9-3/4"	14-1/2"	11-3/4"	8-3/4"	11-1/2"	13-1/2"	12-1/2"	16-1/4"	11-3/4"	5"	7"
WIDTH	4"	4"	5-3/4"	5-3/4"	7-3/4"	7-3/4"	7-3/4"	9-1/2"	9-3/4"	9-1/2"	9-3/4"	4-3/4"	7-1/2"	7-1/2"	7-1/2"	6-3/4"	8"	6-1/2"	7-3/4"
HEIGHT	3-1/2"	3-1/2"	3-1/2"	3-1/2"	3"	3-1/2"	3-1/2"	3"	3-1/2"	3"	3-1/2"	3"	4"	4"	4"	4"	8"	6-1/2"	7-3/4"
WEIGHT (POUNDS)	4.4	4.4	6.2	6.2	10.0	6.1	6.1	14.2	10.5	18.5	12.5	4.5	11.0	15.0	14.0	20.0	22.5	3.4	6.5
AUTOMATIC TEMPERATURE COMPENSATION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
AUTOMATIC MULTI-STAGE CHARGING	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DIGITAL CONTROL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THREE-YEAR REPLACEMENT WARRANTY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LED STATUS DISPLAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BATTERY EQUALIZATION*	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
LOW-LINE VOLTAGE COMPENSATION	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
BATTERY TYPE SELECTION BY BANK	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
WATERPROOF, SHOCK- AND VIBRATION-RESISTANT ALUMINUM CONSTRUCTION	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
SALTWATER TESTED <small>Fully corrosion-resistant construction</small>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
FOR USE WITH 13, 24, 36, or 45-volt systems with 12V/6 cell batteries that are Flooded/Wet Cell, Maintenance Free, Starved Electrolyte (ADM/HP AGM) or LiIion* only	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-
FOR USE WITH 12V/6 cell batteries (50-130 amp hour rating) that are Flooded/Wet Cell, Maintenance Free, Starved Electrolyte (ADM) or LiIion* only	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
12V LITHIUM ION (LiFePO4) OPTIMIZED*	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
FCC COMPLIANT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CEC COMPLIANT <small>Certified Battery Charging System per the California Energy Commission</small>	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
DESIGNED TO UL MARINE STANDARD 1236	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X