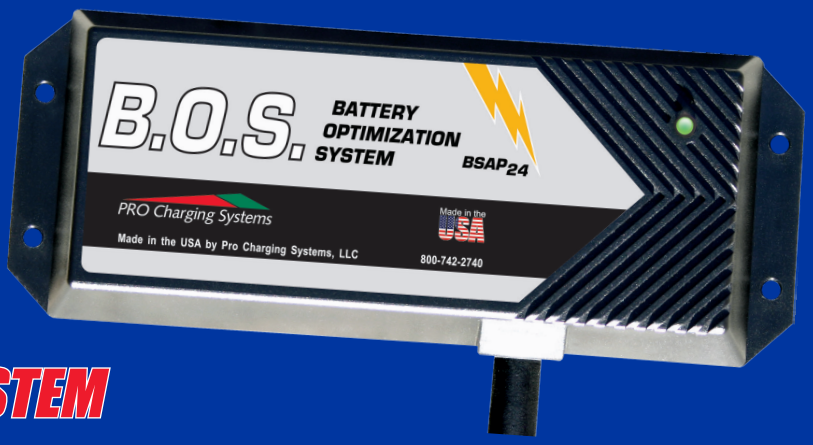
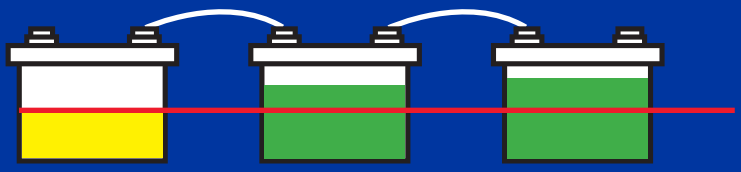
B.O.S.

BATTERY OPTIMIZATION SYSTEM



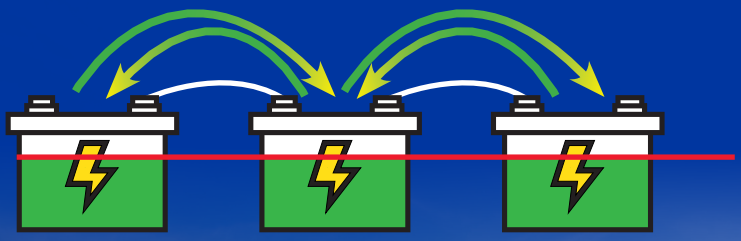
B.O.S. **actively shuttles energy between batteries in series to keep "the pack" balanced, increasing battery strength and longevity.**

Batteries in a pack will become "out of balance" and your trolling motor runtime is solely determined by the weakest battery. This is further compounded when the trolling motor batteries are used for peripherals and/or to assist the cranking battery.



The pack is only as good as its "weakest link".

B.O.S. **actively shuttles energy as needed between batteries wired in series to ensure equal voltage before, during and after charging.**



B.O.S. **strengthens the weakest batteries, stabilizing the pack.**

B.O.S. **keeps packs balanced, enables maximum performance and increases run time on the water.**

Balanced batteries charge to their fullest potential and last longer.

Manufactured in America Since 1989

www.pcsdv.com

PRO Charging Systems

051220

BATTERY OPTIMIZATION SYSTEM (B.O.S.)

DATASHEET

PRO Charging Systems

- Designed for 12V batteries
- Up to four batteries in series
- Battery Selection and Prediction (BSAP-24) algorithm
- Less than 1mA sleep mode
- Transfer rate up to 7.5A
- Self-powered
- Any type of battery chemistry
- *Used in any application where batteries are in series*
  - *Marine*
  - *Golf*
  - *Industrial*
  - *Aerial Equipment*
  - *Solar Power*
  - *Electrical Vehicles*
  - *Communications*
  - *Defense/Military*

Premature battery failure due to an unbalanced pack has been, unfortunately, accepted as the 'norm' for decades.

The B.O.S. answers this call with a BSAP-24 algorithm that can accurately predict and select the battery that needs additional energy to match the other batteries within the pack. This simultaneously and successfully extends the life of each battery in the pack, as well as increasing run times.

MODELS

BOS12V2
BOS12V3
BOS12V4

Key: BOS12V2 = 12Volts, 2Banks

BATTERY OPTIMIZATION SYSTEM (B.O.S.)	
Input voltage range (system voltage)	24V to 48V
Input voltage range per battery	12V
Available batteries	4 (up to 48V pack)
Output power of system	45W
Max output current	7.5A
Protection (mechanical)	IP68
Protection (electrical)	OVP, OCP, OTP, SCP, BOP
Operating Temperature	-40°C to 85°C
Dimensions (L x W x H)	207mm x 83mm x 34mm
Balanced voltage difference	<25mV (Rev B)
Accuracy	<0.5%
Wireless Enabled	up to 300 feet

PROView™ LINK

Monitor batteries from your smart device.
Download PROView™ Link App for free!

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GET IT ON Google Play

051220

IMPROVED RUN TIMES

When a battery pack is in use, runtime is solely dependent on the weakest battery. The B.O.S. will actively shuttle energy from the highest battery(s) to the lowest; thus, increasing available capacity and runtime.

INCREASED HEALTH

It has been an 'accepted' fact that a user would only get 'X' amount of years out of a battery. With B.O.S., these years are exponentially increased by keeping batteries actively balanced, which prevents over and under charging. Furthermore, sulfation is held at a minimum as the weak link battery is no longer taken below the recommended level.

DUAL PRO® Pro Quality Pro Performance

Manufactured in America Since 1989