

iBOS basic

Charger Management System

iBOS technology has become the market leader in battery

management for large distribution centers around the world but has always proved too costly in small applications. The iBOS basic now makes this industry leading technology affordable for all, allowing smaller users to get benefits normally only available to the large corporations.



Battery management systems are often complicated and require specialist installers in order to complete the installation. The **iBOS** basic is the first system specifically designed to be installed by the end user anywhere in the world.

The **iBOS** basic is aimed at an international market with the text for the controller, installation manual and user guide all supplied in 5 languages.

Benefits

The **iBOS** basic can provide real measurable savings, previously only available for large battery fleets:

- **Improved truck run time** – After 6 months of battery management, most sites benefit from 15% longer average truck run times. Over an hour of extra run time on most sites with the original batteries.
- **Improved battery Availability** – After 6 months of correct battery rotation, most sites achieve 15% more availability. There may not be the need for as many batteries in the future.
- **Reduced battery temperatures** – by allowing the batteries to get the maximum amount of cool down time available they will experience reduced internal corrosion which means they will last longer.
- **Reduced battery maintenance** - Less cycles per day means less watering required and prolonged battery life.
- **Fast return on investment** – The average **iBOS** basic system costs less than 5% of the cost of the assets it is managing. By increasing average performance of the batteries and helping them last longer, the system more than pays for itself. In addition, customers often save 3 to 4 times the cost of the **iBOS** basic by reducing future purchases.

Controller



The **iBOS** basic Controller is the brains of the system. The controller features a backlit display which clearly indicates to the forklift operator which is the “correct” battery to pick next. If the operator selects an incorrect battery an integral alarm will sound. Each Controller can monitor up to 31 chargers but is limited to only one "pool". A "pool" is a group of compatible and interchangeable batteries or identical electric vehicles. If there are 2 different pools on a site, then 2 Controllers must be used.

The Controller communicates with all of the Sentinels and creates a queue of available batteries prioritizing those which have been cooling the longest after charging. This method is far superior to antiquated systems which use first in/first out principals.

By touching the screen on the controller, the operator can reveal information about the operation of the site, including: the number of batteries presently available, battery availability over the previous 24 hours, the number of batteries selected, and the percentage of incorrect selections.

Sentinel

The Sentinel™ monitors the charge condition of each battery and can be mounted on any type of conventional or high frequency charger. The Sentinel is a passive voltage monitoring device that incorporates a proprietary intelligent charge-recognition algorithm. One Sentinel is required for each charger and is individually wired to the System Controller.

Sentinels are voltage specific.

