

IQ4 Automatic Multi-Stage Charge Control

for IOTA DLS Battery Chargers



IOTA IQ4 Charge Control Modules are the easiest, safest way to keep your batteries fully charged and in peak operating condition while maximizing useful life. By utilizing the IQ programming, IOTA chargers automatically deliver a four-stage charge cycle to your battery system. Whether you need frequently-cycled batteries charged quickly and efficiently or are maintaining stored batteries in top condition, IQ charge control provides the assurance that your batteries will perform when you need them to.

1 BULK

Batteries are charged up to the full-rated output of the battery charger, reducing the time needed to charge the battery.

2 ABSORPTION

The voltage drops and the batteries are then held for a controlled period at the absorption phase to insure a full and complete charge.

3 FLOAT

The battery charger delivers a 'trickle' charge, maintaining the battery's full charge and avoiding "gassing" caused by over-charging.

4 EQUALIZATION

If the battery remains in the 'Float' state for seven days, the IQ4 delivers a Smart Charge cycle to dissolve sulfate layers and to avoid stratification.

	BULK	ABSORPTION	FLOAT
12V	14.8V	14.2V	13.6V
24V	29.6V	28.4V	27.2V
48V	59.2V	56.8V	54.4V

EQUALIZATION
The IQ charge sequence is re-initiated after a designated period to keep the battery properly exercised.

IQ4 Charge Controllers feature a three-color LED (Green, Amber, Red) to help indicate charge voltage and charging phase of the DLS charge controller.

LED CODE TABLE		
CELL INDICATION		
6 Flashes (GREEN)	12-Volt Battery (6 cells)	
12 Flashes (GREEN)	24-Volt Battery (12 cells)	
24 Flashes (GREEN)	48-Volt Battery (24 cells)	
CHARGE PHASE	LED STATUS	VOLTAGE RATE
FLOAT	ON (GREEN)	2.266 per Cell
ABSORPTION	FLASHING (AMBER)	2.366 per Cell
BULK	FLASHING (RED)	2.466 per Cell



IQ4

Great for Stored Flooded Lead-Acid Batteries

Our traditional IQ4 Smart Charge Controller delivers 4 basic charging functions: BULK, ABSORPTION, FLOAT, and a seven-day MAINTENANCE cycle. The IQ4 is an excellent way to maintain your stored flooded lead acid batteries, such as in an RV that is parked for extended periods of time.



IQ4 TURBO

Rapid Charging for Continually-Cycled Batteries

The IQ Turbo delivers a powerful yet controlled BULK charge to help charge batteries in minimal time. Perfect for batteries that are used frequently but have limited time for re-charging from a generator, solar panel system, or other auxiliary supply.



IQ4 EQUALIZER

On-Demand Bulk Charging

Initiates a constant current BULK charge to flooded lead acid battery to ensure all cells receive an adequate, complete charge in a brief timespan. After a predetermined period, the IQ-Equalizer drops to a trickle charge until re-inserted.



IQ4 LIFEPO

for Lithium-Iron Batteries with BMS

For use with state-of-the-art LiFePO4 batteries with a Battery Management System. Allows the DLS to deliver proper voltage to charge the larger 4-cell design of the battery and remains in a stand-by trickle mode until a BULK charge is needed.



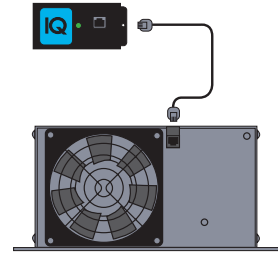
IQ4 AGM

Tailored Absorption for AGM batteries

The IQ AGM provides preferred charging for AGM (Absorbed Glass Matt) batteries by skipping the Bulk cycle and holding the battery at an optimized ABSORPTION stage before reverting to the FLOAT stage.

SIMPLE INSTALLATION

The IQ4 easily installs as a peripheral device by plugging the 10-inch IQ4 connection cord into the Dual Voltage Jack of the DLS. Select DLS chargers can also be ordered with the IQ4 charge control circuitry installed within the unit (IQ4 base model only).



DIMENSIONS

