DLS SERIES BATTERY CHARGERS & POWER CONVERTERS

DUAL-STATE
LINE / LOAD CONTROL
SWITCH-MODE







DLS-15 Battery Charger / Power Converter



IOTA's 120VAC to 12VDC **DLS-15**Series Converter/Charger design
provides clean, steady output for
efficient battery charging and confident
operation of your DC equipment. The
compact, durable engineering of the
DLS Series combines reliable AC/DC
performance with whisper-quiet operation and lower operating temperature.

Dual-State Charging

IOTA's Dual-State Charging design allows the unit to function as both a constant voltage or a constant current charger and automatically selects the optimal charging method for your battery's needs, resulting in safer, faster, and more efficient charging.

Line / Load Control

The tight line/load control of the DLS allows for clean conversion of AC voltage into steady and reliable DC power for your battery or load. By preventing erratic DC output, the DLS Series allows confident operation of onboard and sensitive equipment for optimal life and prevents damage or equipment shutdown from unexpected overloads.

Switch-Mode Technology

The IOTA DLS Series uses state-of-the-art switch mode technology, which minimizes wasted power by significantly reducing high dissipation states. The switch-mode design allows for reliable, efficient performance in a compact chassis with lower operating temperature.

See reverse side for complete model specifications

Also available with the IQ4 charge controller built into the unit. Models with internal IQ4 are designated by '/IQ4' at the end of the model name.

Compatible with Deep-Cycle, VRLA, Gel, AGM, Flooded Lead-Acid, and Select NiFe and Lithium Battery Types*

ADDITIONAL FEATURES



Built-in protection features against low transient AC line voltage, and current limit and thermal overload protection.



Lower operating temperature for longer component life and safer operation in limited compartment spaces.



Proportional Fan Control provides 'whisper-quiet' operation, utilizing the fan only when needed and at minimal speeds, eliminating sudden and obtrusive start-up noise.



External Reverse Polarity automotive bladetype protect the unit in the event of incorrect battery hook-up.



Dual Voltage jack allows for manual selection between Normal and Absorption Phase charging as well as easy installation of the IQ4 Smart Charge Controller.



Can be used with the optional IQ Smart Charge Controller for automatic multi-stage charging to prevent battery sulfation and stratification.



Backed by IOTA's Two-Year Warranty.



UL Listed for use in United States and Canada.



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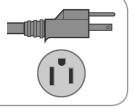
RATINGS AND SPECIFICATIONS	DLS-15
DC Output Voltage (No Load) approx.	13.6V (DC)
Output Voltage Tolerance (No Load)	+ or7%
Output Amperage, Max Continuous	15 Amps
Output Voltage (Full Load) approx.	>13.4V (DC)
Max. Power Output, Continuous	200W
Ripple and Noise	<50 mV rms
Input Voltage Range	108 - 132 VAC
Input Voltage Frequency	47-63
Maximum AC Current (@108Vac)	3.7 Amps
Typical Efficiency	>80%
Max Inrush Current, Single Cycle	30 Amps
Short Circuit Protection	Yes
Overload Protection	>100%
Line Regulation	100 mV rms
Load Regulation	<1%
Fan Control	PROPORTIONAL
Thermal Protection	YES
Working Temperature Range	0° - 40° C
Storage Temperature	-20° to 80° C
Withstand Voltage (VDC) [†]	1700/1700/500
Weight	4.5 lbs

†Primary to Chassis/Primary to Secondary/Secondary to Chassis

6.70 inches 6.20 inches DLS-15 3.40 inches

A.C POWER CORD

The DLS-15 utilizes a standard NEMA 5-15 cord (approx. 36-inch length) for connection to a 15A receptacle.



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External Reverse Polarity automotive blade-type protect the unit in the event of incorrect battery hook-up.



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The DLS Series Battery Charger/Power Converter is warranted from defects in materials or workmanship for two years from date of retail purchase, and limits the remedies to repair or replacement. This warranty is valid only in the continental United States and Canada. For complete warranty details, contact Customer Service or visit www.iotaengineering.com.

IQ SMART CHARGING OPTIONS





IQ4 - Great for Storing Your Flooded Lead-Acid Batteries delivers 4 basic charging functions: BULK, ABSORPTION, FLOAT, and a seven-day MAINTENANCE cycle for stored flooded lead acid batteries, such as in an RV that is parked for extended periods of time. **54V, Parallel Charging**, and **internal** options also available.

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

IQ-EQUALIZER - On-Demand Bulk Charging

The IQ-Equalizer is a useful charge control tool that initiates a constant current BULK charge to your flooded lead acid battery, ensuring that all cells receive an adequate, complete charge in an abbreviated timespan.

IQ-LIFEPO - for Lithium-Iron Batteries with BMS

The IQ-LIFEPO is tailored for use with today's state-of-the-art LiFePO4 batteries that use a Battery Management System. The IQ-LIFEPO allows the DLS to deliver proper voltage to charge the larger 4-cell design of the battery when needed.

IQ-GEL - Confident Charging for Gel batteries

The IQ-GEL features an extended BULK stage but with a slightly decreased voltage that is just right for Gel lead-acid batteries.

IQ-AGM - Tailored Absorption Charging 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.

IQ-40-HOUR - Extended Bulk Charging for Larger Systems

For lead-acid battery banks with increased Amp-Hour ratings, the IQ-40-Hour delivers an extended Bulk charge duration to service the larger capacity.

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