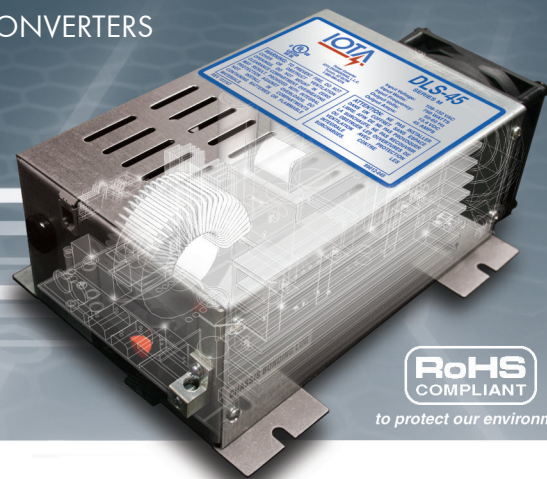


DLS SERIES BATTERY CHARGERS & POWER CONVERTERS

DUAL-STATE
LINE / LOAD CONTROL
SWITCH-MODE

CONVERTS **120VAC** TO **12VDC** **30AMP**



RoHS
COMPLIANT

to protect our environment

DLS-30 Battery Charger / Power Converter



IOTA's 120VAC to 12VDC DLS-30 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.

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 blade-type 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.

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.



1361 E. Wieding Rd Tucson, AZ 85706

1-800-866-4682

www.iotaengineering.com

*Some battery technologies require proper battery management systems and may require a specific IQ smart charging control profile for optimal performance. Contact our Technical Services Team for the right IOTA charging solution for your application.

Rev. 060817

RATINGS AND SPECIFICATIONS

30A DLS

DC Output Voltage (No Load) approx.	13.6V (DC)
Output Voltage Tolerance (No Load)	+ or - .7%
Output Amperage, Max Continuous	30 Amps
Output Voltage (Full Load) approx.	>13.4V (DC)
Max. Power Output, Continuous	400W
Ripple and Noise	<50 mV rms
Input Voltage Range	108 - 132 VAC
Input Voltage Frequency	47-63
Maximum AC Current (@ 108Vac)	7.3 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

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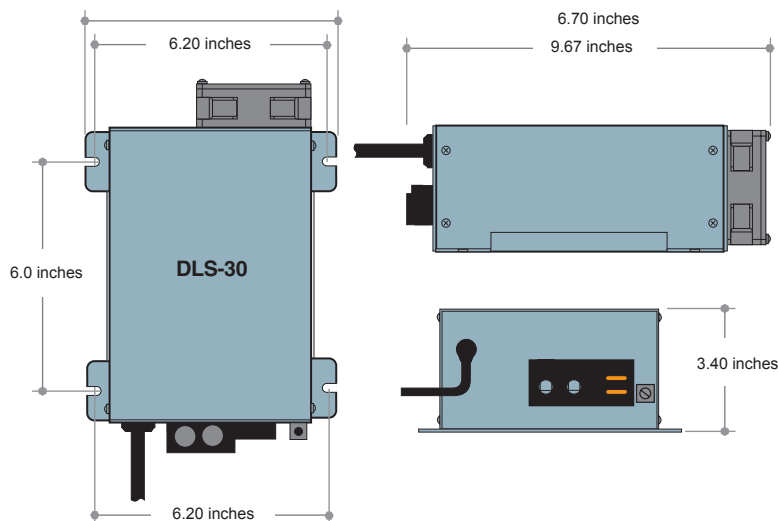


UL Listing for United States and Canada.



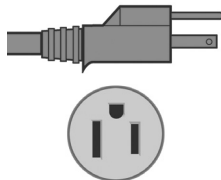
The DLS Series Battery Charger/Power Converter is warranted from defects in materials or workmanship for two years from date of retail purchase, and limits the remedies to repair or replacement. This warranty is valid only in the continental United States and Canada. For complete warranty details, contact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

DIMENSIONS



A.C POWER CORD

The DLS-30 utilizes a standard NEMA 5-15 cord (approx. 36-inch length) for connection to a 15A receptacle.



4-STAGE SMART CHARGING OPTIONS

Optional 4-stage smart-charging is available for both the DLS Charger/Converter. The IQ4 four-stage smart-charging ensures fast, efficient charging and protects your battery from the potential of boiling, sulfation and stratification with Bulk, Absorption, Float, and Equalization stage charging. External and internal IQ4 options available. Contact Customer Service or visit www.iotaengineering.com/iq.htm for further information.