

## DLS-54-13

13 AMP BATTERY CHARGER FOR  
48VDC

120VAC TO 48VDC

INPUT VOLTAGE  
**108-132 VAC**

INPUT FREQUENCY  
**50-60 Hz**

OUTPUT VOLTAGE  
**54.4 VDC**

OUTPUT AMPERAGE  
**13 Amps**



### DESCRIPTION

The **DLS-54-13** Battery Charger from IOTA Engineering converts nominal 108-132 AC voltage to 54.4 DC voltage for 48V battery charging.

As a **battery charger**, the unit will maintain the battery, delivering its full-rated current when the battery capacity falls sufficiently low. The voltage is set to deliver its maximum current for the necessary period of time to minimize undue stress to the battery caused by heating of its cells. This helps to ensure the longest possible life of the battery. Over time, as the battery nears its full capacity, the **DLS-54-13** will automatically drop the current, providing a float-charge to the battery to prevent self-discharge of the cells.

### MODELS



#### DLS-54-13

The DLS-54-13 provides AC/DC conversion up to 13 amps and features a [Dual Voltage Jack](#), allowing the user to manually select between a nominal charging voltage of 54.4V or a stepped-up charging voltage for faster battery charging.

#### DLS-54-13/IQ4

The DLS-54-13/IQ4 features an internal [IQ Smart Charge Controller](#) which automatically provides three-stage battery charging for safer charging and longer life for your system's battery.

### SPECIFICATIONS

DC Output Voltage (No Load) approx.	54.4V (DC)
Output Voltage Tolerance (No Load)	+ or - .5%
Output Amperage, Max Continuous	13 Amps
Output Voltage (Full Load) approx.	>54V (DC)
Maximum Power Output, Continuous	700 Watts
Ripple and Noise	<50 mV rms
Input Voltage Range	108-132V (AC)
Input Voltage Frequency	47-63

Maximum AC Current @ 108VAC	13 Amps
Typical Efficiency	>80%
Max Inrush Current, Single Cycle	50 Amps
Short Circuit Protection	Yes
Overload Protection	>100%
Line Regulation	200 mV rms
Load Regulation	<1%
Fan Control	Proportional
Thermal Protection	YES
Working Temperature Range	0-40C
Storage Temperature	-20 to 80C
Withstand Voltage	1240V @ leads
Dimensions	9.7" x 6.7" x 3.4"
Weight	5.0 lbs

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