

DLS-90

90 AMP POWER SUPPLY/CHARGER

120VAC TO 12VDC

INPUT VOLTAGE
108-132 VAC

INPUT FREQUENCY
50-60 Hz

OUTPUT VOLTAGE
13.4 VDC

OUTPUT AMPERAGE
90 Amps



DESCRIPTION

The **DLS-90** Power Converter/Battery Charger from IOTA Engineering converts nominal 108-132 AC voltage to 13.4 DC voltage for both DC load operation and 12V battery charging.

As a **power supply**, the unit's tightly controlled regulation allows the user to operate a nominal 12VDC load up to 90 amps.

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-90** will automatically drop the current, providing a float-charge to the battery to prevent self-discharge of the cells.

MODELS



DLS-90

The DLS-90 provides AC/DC conversion up to 90 amps and features a [Dual Voltage Jack](#), allowing the user to manually select between 13.6V and 14.2V charging.

DLS-90/IQ4

The DLS-90/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.	13.6V (DC)
Output Voltage Tolerance (No Load)	+ or - .7%

Output Amperage, Max Continuous	90 Amps
Output Voltage (Full Load) approx.	>13.4V (DC)
Maximum Power Output, Continuous	1200 Watts
Ripple and Noise	<150 mV rms
Input Voltage Range	108-132V (AC)
Input Voltage Frequency	47-63
Maximum AC Current @ 108VAC	21 Amps
Typical Efficiency	>80%
Max Inrush Current, Single Cycle	50 Amps
Short Circuit Protection	Yes
Overload Protection	>100%
Line Regulation	100 mV rms
Load Regulation	<1.5%
Fan Control	Proportional
Thermal Protection	YES
Working Temperature Range	0-40C
Storage Temperature	-20 to 80C
Withstand Voltage	1240V @ leads
Dimensions	13" x 6.5" x 3.4"
Weight	7.8 lbs