

INPUT/OUTPUT PRODUCT CHART

Easily select the IOTA model that matches your voltage and amperage requirements**

		INPUT VOLTAGE	
		108-132VAC	220-240VAC
OUTPUT VOLTAGE	12VDC	DLS-15 (15A) DLS-30 (30A) DLS-45 (45A) DLS-55 (55A) DLS-75 (75A) DLS-90 (90A)	DLS-240-30 (30A) DLS-240-45 (45A) DLS-240-55 (55A)
	24VDC	DLS-27-15 (15A) DLS-27-25 (25A) DLS-27-40 (40A)	DLS-240-27-40 (40A)
	48VDC	DLS-54-13 (13A)	DLS-240-54-20 (20A)

**Some units are not UL Listed. Refer to DLS unit specifications for further information.

DLS SERIES FAQs

- **How long will it take to charge my batteries?**

The amount of time it takes the battery to charge is dependant on many factors, ranging from the capacity of the battery or battery bank, battery condition, the amount the battery has been discharged, and which model DLS is being used.

- **Is the fan going to run at all times?**

No. DLS units feature “proportional fan control,” meaning the fan will run only when needed and at the speed necessary to cool the unit. The result is quieter operation of the charger with no sudden starting and stopping fan noise.

- **What is Dual Voltage?**

Dual Voltage allows selectable charging capability, offering a standard 13.6V “float” charge and a stepped-up 14.2V “bulk” charge for 12V DLS units (for DLS units other than 12V output, refer to the owner’s manual for dual voltage ratings). Manually increasing the float charge to the bulk charge allows for faster charging of the battery.

- **Will an IQ4 Smart Charger help me?**

The IQ4 Smart Charger offers automatic charging control for the DLS, providing longer and safer use of your system’s battery. The IQ4 allows the battery charger to operate as an automatic ‘smart’ charger by delivering Bulk, Absorption, and Float stage charging, and providing an Equalization charge every seven days.

- **Does my unit work on 220-240V?**

220-240V systems require a DLS model specifically designed for that application’s voltage. These DLS units are clearly identified on the label as 240V and are available in a variety of amperages. Additionally, the rating specifications on the DLS label will indicate the appropriate input voltage range for the unit.

- **What are the fuses on the DLS for?**

The fuses on the DLS provide Reverse Polarity Protection in the event that the DLS output is connected incorrectly. If the fuses are blown, verify proper installation before replacing the fuses. Always replace the fuses with the same size and style fuse that came with the unit.

- **I’m using a DLS unit that does not feature a Dual Voltage Jack. Can I still use an IQ4 Smart Charger?**

Yes. While the IQ4 Smart Charger is now designed to simply be inserted into the Dual Voltage Jack, it can be wired for use with original DLS models that do not have the Dual Voltage Jack. Contact Technical Support for wiring instructions on how to connect the IQ4 to these units.

Need more info? Contact our DEALER HOTLINE...call 1-800-866-4682 or e-mail techsupport@iotaengineering.com

DLS SERIES TROUBLE-SHOOTING STEPS

In situations where the battery is not charging, or you wish to confirm that the DLS is functioning properly, follow these diagnostic procedures:

- 1) Unplug the DLS and check the electrical box for 120VAC output.
- 2) With the DLS unplugged, disconnect the positive lead from the DLS. Be careful to not let the wire come in contact with anything while it is disconnected.
- 3) Plug the DLS into the 120VAC supply and measure the DC output (make sure the Dual Voltage Plug is not inserted into the jack). The output voltage should be 13.6VDC. A correct voltage indicates that the DLS is functioning properly.
- 4) Check the fuses on the DLS. If the fuses are blown, check for proper polarity connection on the output of the DLS and replace any blown fuses.
- 5) If the voltage is incorrect, contact IOTA by calling **1-800-866-4682** or e-mail techsupport@iotaengineering.com.



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