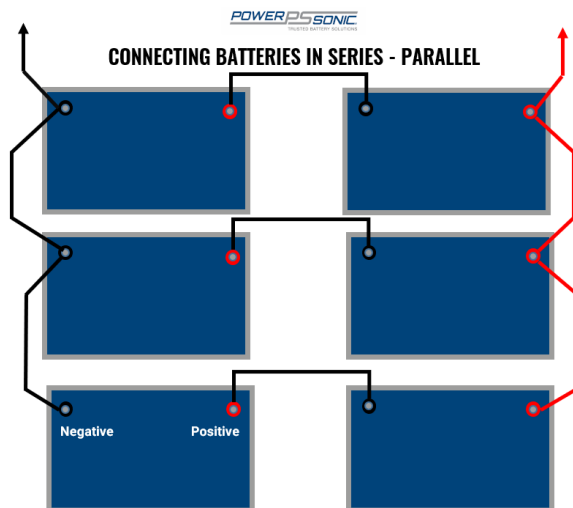


Sager Power Systems Product Showcase - May 2020



How to Connect Batteries in Series and Parallel

Connecting a battery in series is to connect two or more batteries together to increase the battery system's overall voltage. This type of connection does not increase the capacity, only the voltage. With a parallel battery connection, the capacity will increase, but the voltage will remain the same. While a series-parallel connection is the connection of a string of batteries to increase both the voltage and capacity of the battery system. **Power Sonic** explains these connection types for higher voltage applications or power hungry applications.

[Learn more here](#), including our [latest video](#). Sager's [Battery Solutions Center](#) can assist with parallel and series assembly requirements, and our [battery experts](#) stand ready to help with battery selection.

New and Featured Products from [Sager Power Systems](#)



IRM-90 Series 90W AC/DC PCB-Mount Green Power Module

The IRM-90 is a 90W miniature AC/DC PCB-mount module power supply which can be soldered onto PC boards. The flame retardant plastic case and the fully-potted silicone enhances the heat dissipation and meets the anti-vibration demand up to 2~5G anti-vibration by model.

Features:

- 3.43"x2.05" compact size
- PCB, chassis or screw terminal mounting
- No load power consumption <0.21W
- EMI EN55032 ClassB without additional components
- Wide operating temp. range -30~80°C



High Density 12 Watt RS12-Z DC/DC Converters

The RS12-Z DC/DC converters feature a high power density, 4:1 input voltage, and 8W to 12W output power. These converters use planar transformer technology that offers regulated DC output with 3kVDC isolation and a wide operating temperature range of -40°C to 75°C.

Features:

- 12W in a SIP 8 package
- Typical efficiency up to 89%
- Control and trim functions
- Pin-compatible with RS3 and RS6 series
- Wide 4:1 input voltage range
- -40°C to 75°C operating temperature range



TPS4000 Industrial Power Supply

TDK-Lambda's TPS4000 Industrial Power Supply features a 24V to 48V output voltage range, 166A maximum current rating, and 92% typical efficiency. The TPS series offers output power up to 4080W in a 2U high package with 3-phase supply input. Works in the -40°C to 70°C operating temperature range.

Features:

- Versatile application
- Flexible control and adjustment
- Suitable for rugged environments
- Less energy used
- Remote output programming and monitoring



LU225 Series Single Output Power Supply

SL Power's LU225 Series is the world's first open frame power supply to carry the UL8750 safety approval. Applications include lighting, industrial, test & measurement, audio visual, automation, and communications.

Features:

- 2.2" x 4.16" x 1.5" Package
- EN55015 (EN55032) Class B Conducted EMI
- 180 Watts (Conduction Cooled)
- 150 Watts (Convection Cooled)
- Universal Input 90-305Vac
- 0.5W Power Consumption at No-load

- Cooling by free air convection
- Isolation Class II

More info...

- IEC/EN/UL62368-1 certified

More info...

- Built in ORing FET for parallel operation

More info...

- Active Inrush Current Limiter – 15A

More info...

In addition to our world-class standard, [modular and custom power supply solutions](#), Sager offers [interconnect](#) and [electromechanical](#) components including [thermal management](#) and [sensors](#) from leading manufacturers worldwide.



Contact a Sager Power Systems representative for more information: (866) 588-1750 or power@sager.com.

