

Liquid Cooled 20- to 25-kW Power Systems Target Heavy Industrial And Military Projects

[Schaefer](#) has added two new series of power supplies to its Heavy Industrial/Military COTS/MOTS (20-kW to 30-kW) Power series—the CPW-5700 series of ac-dc supplies and the BPW-5700 series of battery chargers. These robust and shock resistant power supplies are designed for the harshest operating conditions as specified in Mil-Std-901D/Mil-Std-810 (see the figure.) Some of these applications include but are not limited to COTS military systems, industrial automation, fiber laser, communications, radar/sonar, oil/gas, utility, alternative energy, and rail.

The CPW/BPW 5700 series offers three-phase, wide input ranges for 200/400/440 V ac and 480 V ac and selectable output voltages and currents (full range.) Key features include power factor correction (PFC/Mil-Std-1399/ under 3% THDi), remote on/off, full galvanic isolation, an operating temperature range of -40°C to +75°C and high power-density and compliance to EMC/Mil Standard (MIL-STD-461) as well as a full complement of protection/alarm signals such as overtemperature, overcurrent and overvoltage.

The CPW/BPW 5700 series can be configured as an ac-dc power supply/source or full battery charging capability that's liquid cooled and highly rugged along with easy integration via 19-in. design or modules, which makes the series ideal for mission critical applications. Full specifications can be viewed at www.schaeferpower.com.



Figure. The CPW-5700 series of ac-dc supplies and the BPW-5700 series of battery chargers are robust, shock resistant liquid-cooled power supplies designed for the harshest operating conditions in industrial and military applications. They feature three-phase, wide-input ranges for 200/400/440 V ac and 480 V ac and selectable output voltages and currents.