

## **Industrial Sinewave Inverters Deliver 400-VA From 600-Vdc Input**

[ABSOPULSE Electronics'](#) CSH-400-F6 series of heavy-duty, high-input-voltage dc-ac sinewave inverters use microprocessor-controlled, high-frequency PWM technology to deliver 400-VA pure sinewave output. They convert 600-Vdc industrial input voltage (450-V to 800-V operating range) to an isolated sine wave output of 115 Vac continuous at 60 Hz or 400 Hz, or 230 Vac continuous at 50 Hz. The design topology allows for input voltages of up to 1200 Vdc.

The inverters are designed for industrial applications that require clean sine wave ac-output voltage and are suitable for industrial automation and control, transportation, power plants and electrical utilities. The high-frequency conversion enables high efficiency, compact construction of 210 x 64 x 365 mm and low weight (3.2 kg or 7 lbs.) The inverters are cooled by conduction via baseplate and by natural convection through the cooling slots. Most heat-generating components are installed on aluminum heatsink blocks which are thermally connected to the base plate. This also ensures exceptional mechanical ruggedness (see the figure.)

The internal boards are conformal coated to provide protection against humidity and airborne contaminants. The units are typically chassis mounted.

The input meets EN55022 Class A with wide margins, with Class B available on request. This ensures that the inverters can be used in EMI-sensitive environments without additional filtering. An optional output-fail alarm (Form C) is available.

The units are designed for compliance with C22.2 No. 107.1 – 01, UL 458 and EN/UL60950-1 standards. Electronic protection includes input surge clamping, overload and short circuit protection, as well as thermal shutdown with automatic recovery. Large design headroom and the exclusive use of components with established reliability contribute to a high MTBF.

Contact ABSOPULSE Electronics by phone at 613-836-3511 or via the [website](#) for custom options, pricing and delivery.



*Figure. Featuring a compact 210- x 64- x 365-mm package, the CSH-400-F6 series heavy-duty inverters deliver 400-VA of pure sinewave output at 115 or 230 Vac while operating from a 450-V to 800-Vdc input. These units, which employ conduction and natural convection cooling only (there's no internal fan), are suitable for industrial automation and control, transportation, power plants and electrical utilities.*