Ultra Compact 2” X 3” Format Delivers 60 Watts

XP Power today announced an addition to its ECS family of ultra compact single output industrial and medical AC-DC power supplies. Believed to be the smallest 60 W unit currently available on the market, the ECS60 extends the power density benchmark already set by the ECS series. Measuring just 2 x 3 x 1.05 inches (50.8 x 76.2 x 26.7 mm), the ECS60 unit takes up 25% less space than the current industry 2 x 4 inch footprint.
Featuring a no load power of less than 0.5 W, this highly efficient convection cooled unit, typically between 87% - 89%, helps customer’s end-product comply with internationally recognized energy efficiency standards. The series also meets XP Power’s ‘green power’ limits. The ECS series now covers the power ranges of 25 W, 45 W and 60 W in 2 x 3 inch formats and 100 W in a 2 x 4 inch size.

The ECS60 has an extremely wide input voltage range, from 80-264 VAC, and provides the nominal outputs of +12, +15, + 24 or +48 VDC. A +5 VDC / 8 A output model is also available.

Capable of delivering full power output from - 20 degrees C to + 50 degrees C without the need for any external fans or forced airflow, the unit can operate up to + 70 degrees C with derating. Provision for a Class I or Class II input gives the designer the option of choosing to use an input ground if required. A covered version of the ECS60 is available for Class I installations. Overvoltage, overload and short-circuit protection features are included as standard.

The unit meets UL60601-1 / EN60601-1 medical equipment safety standards and UL60950-1 / EN60950-1 standards for IT and industrial equipment. It also complies with the EN55011 / EN55022 level B standard for conducted emissions without the need for additional filtering components.

The ECS series of power supplies suit designers of medical, IT or industrial equipment. Applications cover a wide variety, such as test and measurement, broadcast equipment, communications and data storage. The medical safety approval makes it suitable for products such as portable medical devices, home healthcare devices and personal drug delivery equipment.

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