

New 5W AC/DC Module range from Mornsun features Ultra-wide 90-528VAC Input.

Global power conversion

manufacturer Mornsun is pleased to announce the launch of a new 5W of SIP AC/DC converters that feature an Ultra-wide input of 90-528V AC. This



extended input range significantly increases the possible applications that these converters can be used in. They are suitable for standard Worldwide mains input voltages but are also suitable for 2 wire connection to 3-phase 4-wire systems.

The single output voltages available in this product series include 3.3V, 5V, 9V, 12V, 15V and 24V. Typical output voltage accuracy is $\pm 5\%$ with line regulation of $\pm 1.5\%$ (full load) and load regulation (10-100% load) of $\pm 2.5\%$, all modules have a minimum load requirement of 10%. Outputs feature low ripple & noise of 180mV max (pk-pk, 20Mhz bandwidth) and they have multiple output protections including continuous self-recovering short circuit protection and over-current protection.

These converters use a compact SIP package with dimensions of 44.5 x 24 x 13mm. The operating temperature range of these converters is -40°C to $+85^{\circ}\text{C}$ and cooling is via free air convection.

The design of LS05-26BxxSS(-F) series meet the UL62368/ EN62368 (pending)/IEC62368 standards, and input to output isolation voltage is 4000 VAC minimum. These modules offer high reliability, MTBF $\geq 300\text{K hr's}$ (MIL-HDBK-217F@ 25°C). The reliability of these devices is enhanced by a fully automated manufacturing process which ensures high precision and repeatability with the result being a more cost-effective product.

The small volume and high integration of these converters make them particularly suitable for space constrained applications including instrumentation, metering, sensors and control circuits.