

## LOW PROFILE DC-DC CONVERTERS

### ULTRA-LOW PROFILE, HIGH-RELIABILITY

When your design demands maximum performance in minimum space, Pico Electronics delivers. We specialize in **high-reliability, ultra-miniature** power modules engineered for the most demanding industries. Pico Low Profile DC-DC converters provide **clean, isolated** power in packages as low as **0.200 inches** (5.08 mm), enabling you to power critical applications where every millimeter counts.



#### Military & Defense

Powering **avionic guidance systems, UAV payloads** and **soldier-worn comms** requires extreme reliability. M, MV & MR Series use **MIL-screened components** for proven performance in harsh environments. These series offer standard **-55°C to +85°C** operating temperature range provides stable power during rapid temperature changes.



#### Medical & Scientific Instruments

Pico Low Profile DC-DC Converters are vital for small and portable medical & scientific handheld instruments. **Up to 10,000 VDC** outputs are available; ideal for high-voltage bias in compact devices. Applications include powering photomultiplier tubes in **mass spectrometers, portable ultrasound scanners, flexible endoscopes**, and **glucose monitors**.



#### Telecommunications & Data Centers

These converters are key for high-density telecom servers/switches. Their ultra-low packages (typically **0.500"**) allow greater board density and more line cards per chassis. This point-of-load (PoL) solution provides **isolated, regulated power to ASICs** and **optical transceivers**, improving signal integrity and system reliability.

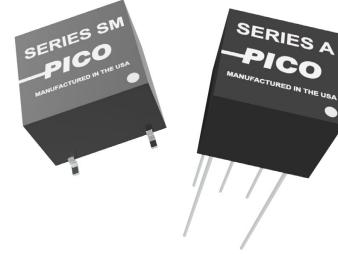


#### Portable & Battery-Powered Devices

With profiles **as low as 0.200"**, Pico converters are among the industry's smallest. Wide input ranges suit various batteries voltages (**3-475V**) and SMT packages allow for automated manufacturing. This miniaturization enables more features and longer battery life. Portable, battery-powered devices like **field tester, data loggers, or meters** need efficient power in a tiny footprint.

## Series A & SM >

- Up to 1.25W output at +70°C ambient, upgradeable to +85°C ambient
- Encapsulated semiconductors, conservatively rated for maximum reliability
- Ultra-miniature size – down to 0.300" height
- 5 to 48V input models
- Up to 250V output models
- Up to 1000VDC isolation at 100MΩ
- Input/output isolation
- Single and dual output
- Output voltage is directly proportional to input voltage
- No heat sink or derating required



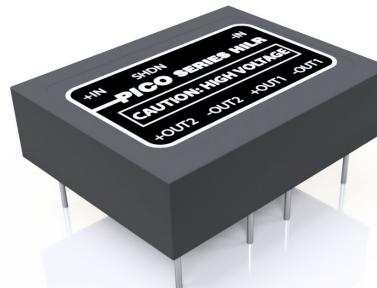
## Series SAR & SAR-SM >

- 0-100% programmable output feature
- Up to 3W output power
- 2:1 wide input voltage range with 0.5% line regulation
- Internal reference voltage feature
- Shutdown feature
- Single or dual output configuration
- Protected against input over/undervoltage, over temperature and over programming



## Series HILR >

- Wide input voltage range – 125 to 475V
- Up to 5W output at +70°C ambient
- Low profile – 0.500" height
- 3.3 to 100V output models
- Down to 0.5% line regulation
- Single and dual isolated output
- No heat sink or derating required
- Protected against input over/undervoltage, output overcurrent, and over temperature



## Contact Us

Need a low profile solution that doesn't compromise on size or reliability? Visit our website or contact our team of engineering experts today to discuss your project requirements.

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Certified to  
AS9100D  
ISO 9001:2015

