

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.

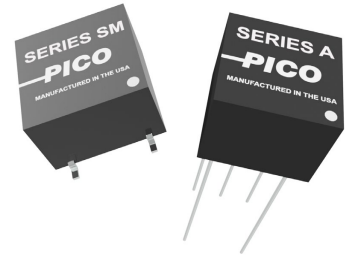


Portable & Battery-Powered Devices

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.

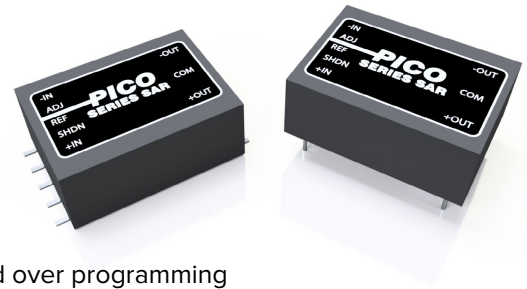
Series A & SM >

- 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



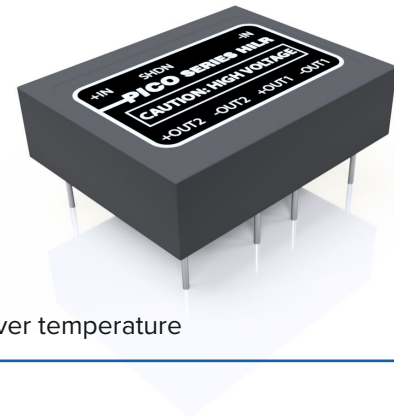
Series SAR & SAR-SM >

- 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.

143 Sparks Avenue
Pelham, New York 10803

Phone: +1 (914) 738-1400
Email: info@picoelectronics.com



Certified to
AS9100D
ISO 9001:2015

