



MODULAR DEVICES, INC.

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An ISO 9001:2015 Registered Company

Modular Devices, Inc Announces Two New Rad Hard Battery Charger DC-DC Converters

Shirley, NY (April 21, 2025): Modular Devices, Inc., a leader in reliable power conversion solutions, is proud to introduce two new DC-DC converters designed specifically for efficient Lithium-Ion battery charging in demanding space applications.

Meet the New Models:

Model 53905 – 100W Battery Charger DC-DC Converter

Ideal for higher power applications, the Model 53905 delivers up to 100 watts of isolated, adjustable output power. Operating from a nominal 28 VDC input, this converter provides a 20–36 VDC output that can be precisely controlled via a user-defined reference voltage on the output side. A 1 VDC control signal yields a 20 VDC output, while 3.3 VDC corresponds to 36 VDC output.

Model 53904 – 40W Battery Charger DC-DC Converter

For lower power needs, the compact Model 53904 offers the same adjustable output voltage range and user-friendly control interface in a 40-watt package. Like its higher-power counterpart, it operates from a 28 VDC input and supports isolated output, ideal for safely charging Lithium-Ion batteries across a range of use cases.

Key Features:

Input Voltage: Nominal 28 VDC

Output Voltage: Adjustable 20 VDC to 36 VDC

Output Control: 1–3.3 VDC command (referenced to output side)

Isolated output for enhanced safety

Optimized for Lithium-Ion battery charging

Available in popular spacecraft bus voltage ranges: 28 VDC, 50 VDC, 70 VDC and 100/120 VDC

Engineered for Flexibility and Control

Both converters are designed with system integrators in mind—offering simple analog control of output voltage, compact footprints, built in EMI filters and robust isolation.

Interested? To learn more, visit www.mdipower.com or contact our [Sales](#) department.

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