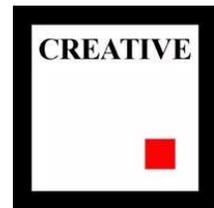


HIGH-STABILITY, UNIPOLAR 300 W AC – DC POWER SUPPLY

CURRENT-CONTROLLED, SWITCH-MODE POWER CONVERTER FOR ELECTROMAGNETS



SMI-AU1300

- Output current stability within +/- 100 ppm.
- Compliant to conducted EMI.
- Output polarity reversal feature with controlled electromechanical switch
- Rugged, reliable power converter
- Easily accessible important signal for in-situ monitoring and diagnosis.

Salient Features

Input Voltage	:	230 V \pm 10%, 50 Hz \pm 3%, single-phase, three-wire (L,N,E) ac mains (for power electronics) 18 V – 0 – 18 V \pm 10%, 50 Hz \pm 3%, 0.5 A ac (for control electronics)
Maximum Output Voltage	:	50 V DC
Maximum Output Current	:	15 A DC
Output Polarity	:	Unipolar. Off-line reversal of polarity is possible by in-built polarity reversal switch.
Maximum Output Power	:	300 W
Load	:	Resistive or resistive-inductive (electromagnet)
Output Current Stability	:	Within \pm 100 ppm of the full-scale current for 8 hours after 1 hour warm-up
Form Factor	:	Standard 19-inch rack compatible 6U, 12 T card of 220 mm depth
Connector	:	Hybrid (power + control pins) EURO connector
Front Panel	:	6U, 12 T fascia plate
Front Panel Accessories	:	<ul style="list-style-type: none">• 3 mm LED indicators for indication of auxiliary supply, power converter ON/OFF, faults• Three test jacks to measure current set reference, current read back• A push-button to reset the fault• 9-pin sub-D connector to monitor more signals for diagnostics• 25-pin sub-D connector for interfacing the power converter for remote operation
Protections	:	<ul style="list-style-type: none">• In-rush current limit via NTC thermistor• Fuse for input over current / short-circuit protection• Latched fault for power converter over-current protection
Cooling	:	Air natural

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