

SnowPure's DC Power Product Line

O-008B: 5kW DC Power Supply Designed For EDI

SnowPure has designed another modular DC switching power supply for its Electropure™ brand EDI modules

- Air-cooled, Switch-mode DC supply
- Designed for continuous operation at rated output
- Low AC ripple
- Power semiconductors for pulse amplitude modulation
- Electronics for constant voltage control
- Over-current and short-circuit protection
- Over-temperature protection
- Suitable for NEMA Enclosures
- 0-600VDC, 0-8 Amps DC, 0-5kW
- Designed for:
 - EXL-750 (0-600VDC, operates at 400VDC)
 - EXL-850 (0-600VDC, operates at 500VDC)
- Interlock by dry normally open contact (flow switch/pressure switch)
- CE Compliant
- EMC filter to protect against mains line noise
- Isolation transformer built into the power supply
- Standard 0-10VDC Set Value Input
 - Optional: 4-20mA Set Value Input (O-016A)
 - Available: Remote digital DC Volt/Ammeter display (O-014B)



Electrical Parameter	Specification Value
Output DC Voltage (Constant Voltage Mode)	0-600 VDC
Output DC Current (Has Overcurrent Protection)	0-8 Amps DC (ADC)
AC Input. Three phase, 50 or 60HZ (Specify 400V or 480V at order)	400V (380-440V) 480V (440-480V)

ediPureSource™ O-008B Features	Specification
Protection: Over-Current (Lowers Operating Voltage)	@8.1 ADC
Protection: Over-Current (Shutdown/Fault)	@8.2 ADC
Protection: Short-Circuit (Shutdown/Fault)	Open Circuit
Protection: Over-Temperature (Standby/Fault)	Included
Cooling: Speed Controlled Air Fan	Inlet: Front, Outlet: Rear
Voltage Ripple, Max	< 3% (1-2%)
Power Efficiency Rating (@Full Load)	> 94%
System Interface & Options	Set-point adjustment for V+A: 0-10Vdc input (standard) 4-20mA output (standard) 4-20 mA Input Set Value (option O-016A) Remote Digital DC Volt/Ammeter Display (option O-014B) Main input contactor "On/Off" (customer) Interlock "Open/Closed" (customer) Fault Indicator (customer)
Voltage and Current	Actual: 0-10Vdc input, 4-20mA output 4-20mA Input Set Value (option O-016A)
CE Compliance	Low Voltage Directives: IEC EN61558-2-16, EN61558-1
Degree of Protection	NEMA 2
Dimensions (O-008B) (Width x Depth x height)	17x17.5x10 inches 43.2x44.5x25.4 cm
Operating Weight	68 lbs (31 kg)

Electropure™ EDI Technology

- No concentrate recirculation or brine injection
- Thin-Cell efficient technology
- Thin-Concentrate non-scaling technology
- Unique non-scaling electrode system
- Patented Excellion™ membranes

Doing business with SnowPure

- Electropure™ EDI technology was born in 1977, before Ionpure®
- SnowPure is privately held
- SnowPure is your partner, not a competitor
- High quality Electropure™ EDI training and OEM support

Benefits of Using EDI

- Continuous Process—no upsets
- Operating cost is minimized
- No hazardous waste, no associated costs and risks
- No regeneration acid or caustic
- Flexible—easy to expand a modular EDI system
- Reliable—no recirculation system components to fail

EDI Technology Training and OEM System Design Support

- SnowPure believes strongly in training—this helps ensure field success with Electropure™ EDI systems.
- SnowPure assists new OEM customers through their system design phase.
- Our customers also have access to our Best Practices P&ID's to aid in their EDI system optimization.
- Combined with ongoing Technical Service, we help ensure success.



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