

SnowPure's DC Power Product Line

O-008E: 20kW 0 to 10Vdc Interface 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 rectifier
- Designed for continuous operation at rated output
- Constant low ripple of less than 3%
- Power semiconductors for pulse amplitude modulation
- Electronics for constant voltage control
- Over-current and short-circuit protection
- Over-temperature protection
- Suitable for NEMA Enclosures, flange mount
- 0—600VDC, 0-32Amps DC, 20kW
- Designed for:
 - EXL-850 x 4 modules (0-600VDC, operates at 500VDC)
- Interlock by dry normally open contact (flow switch or pressure switch)
- CE Compliant
- EMC filter
- Standard 0-10Vdc Interface—Optional System Controls:
 - O-016 For customer supplied PLC, 4-20mA
 - O-016A For customer supplied PLC, Modbus RS485
 - O-016B Digital wall-mount control/monitor volt/ammeter, potentiometer to set DC voltage/current



Electrical Parameter	Specification Value
Output DC Voltage (Constant Voltage Mode)	0-600 VDC
Output DC Current (Has Overcurrent Protection)	0-32 Amps DC (ADC)
AC Input	380-480VAC/3PH/50-60HZ

ediPureSource™ O-008E Features	Specification
Protection: Over-Current (Lowers Operating Voltage)	@32.1 ADC
Protection: Over-Current (Shutdown/Fault)	@33-35 ADC
Protection: Short-Circuit (Shutdown/Fault)	Open Circuit
Protection: Over-Temperature (Standby/Fault)	Included
Cooling: Speed Controlled Fan	Inlet: Front, Outlet: Rear
Voltage Ripple, Max	< 3% (1-2%)
Power Efficiency Rating (@Full Load)	> 94%
System Interfaces & Options	Set-point adjustment for V+A: 0-10Vdc (standard) 4-20mA Control Interface card (option O-016) Modbus RS485 Control Interface card (option O-016A) Remote Volt/Amp On/Off/Set/Display (option O-016B) Main input contactor "On/Off" (customer) Interlock "Open/Closed" (customer) Fault Indicator (customer)
Voltage and Current	Actual: 0-10Vdc (customer, optional O-016B)
CE Compliance	Low Voltage Directives: IEC EN61558-2-16, EN61558-1
Degree of Protection	NEMA 2
Dimensions (O-008E) (Width x Depth x height)	19.3x18.9x10.9 inches 49x48x27.7 cm
Operating Weight	95 lbs (43.1 kg)

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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.