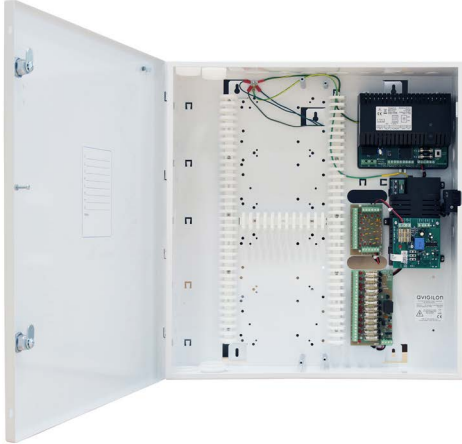# Elmdene 4 to 12 Door Enclosure

A high efficiency cost effective power supply, specifically designed for use with Avigilon's range of Mercury access control controllers & modules. Featuring a regulated 13.8v dc 8A output supplying continuous full rated current to load and a universal mains voltage input. Enhanced battery life is assured using deep discharge protection to prevent premature battery failure when operating in standby mode for extended periods. Two sets of volt free contacts are provided to signal (i) loss of mains and (ii) battery and loss of output faults.

KEY FEATURES

Selectable 12V dc or 24V dc output	Modular construction for ease of maintenance and installation
Continuous full rated current to load	Full electronic short circuit and overload protection on load output under mains operation
Additional 0.5A to charge standby battery/batteries	Mains transient protection circuit
17Ah Standby battery recharged to 80% within 24 hours (battery not included)	Lid opening and remove from wall tamper detection
Universal mains input voltage 90-264V ac	Green Mains present LED
Mains fail volt-free fault output	Yellow Fault LED
Independent ancillary relay (for fire door release)	Reverse battery connection protection
High efficiency electronics for reduced running costs and lower operating temperatures	8 Individually Fused Outputs
Installer safe design with all high voltage electronics fully shrouded	

Specifications

MODEL SPECIFICATIONS

Model	Description
AC-ELM-4/12DR-EXP	4 door, 13.8V dc 8A / 27.6V dc 4A Switch Mode Power Supply, 8-way Fused Output Module, fits 4 x EP1501 or 2 x EP1502 / HID VertX® sized door controllers. Expandable to 12 doors with 2 x AC-ELM-ACCESS-EXP-PLATE
AC-ELM-4/12DR-EXP-LCK	4 door, 13.8V dc 8A / 27.6V dc 4A Switch Mode Power Supply with additional lock PSU (13.8V dc 5A), 12-way Fused Output Module (controllers) + 12-way Fused Output Module (locks) with individual Fire release functionality, fits 4 x EP1501 or 2 x EP1502 / HID VertX sized door controllers. Expandable to 12 doors with 2 x AC-ELM-ACCESS-EXP-PLATE
AC-ELM-ACCESS-EXP-PLATE	Expander Plate for AC-ELM-4/12DR-EXP and AC-ELM-4/12DR-EXP-LCK

SPECIFICATION (INPUT)

Voltage	Rated: 100-240V ac (50-60Hz) Operating: 90-264V ac (50-60Hz)
Max Current	2.0A (@ 90V ac)
Mains Input Fuse	T3.15A (HRC 20mm)
Max standby Power	1.5W (No load and no battery connected)

SPECIFICATION (OUTPUT)

	12V MODE	24V MODE
Voltage (under mains)	13.5 – 14.0V dc (13.8V dc nominal)	27.0 – 28.0V dc (27.6V dc nominal)
Voltage (under battery)	10.5 – 12.4V dc	21.0 – 24.7V dc
Fused Outputs	8 x F1.0A (default) – Spare fuses supplied for 24V mode (8 x F500mA)	
Max Load Current	12V dc Mode: 8A / 24V dc Mode: 4A	
Ripple	100 mV pk-pk max	
Load Output Fuse (12V Mode)	8A (F3)	
Load Output Fuse (24V Mode)	4A (F2)	
Overload	Electronic shutdown (mains operation) and fuse protection Battery protection by self-resetting thermal fuse	

STANDBY BATTERY

Battery Type	One or two 12V Valve Regulated Lead Acid (not included)
Battery Capacity (max)	2 x 12V 7Ah / 1 x 12V 17Ah
Battery Charging Fuse protection	0.5A PTC thermal fuse (self-resetting)

MECHANICAL

Enclosure Dimensions (HxWxD mm)	515x478x146	
Max Battery Capacity	1 x NP17 (17Ah) (not included)	2 x NP7 (7Ah) (not included) *
Weight (Kg)	8.7	10.3

* For 24V applications only. Ensure voltage selector is set 24V when connecting 2 x batteries.

ENVIRONMENTAL

Temperature – Operating	-10 to +40°C (operating) 75% RH non-condensing
Temperature - Storage	-20 to +80°C (storage)