

EAC POWER SUPPLY REQUIREMENTS



EAC Component	Comments	AMP/Voltage Requirements Per Component	Power Supply Required	Max # of Components Per Power Supply	Power Supply Notes
Exit Devices					
9000 ES Exit Device	Solenoid Electric Latch Retraction	14–18 A inrush for 200 ms @ 24 VDC 1 A holding current @ 24VDC	PS501	2	PS501 Must be used with ES Exit Device to Maintain UL Listing
9000 ESB Exit Device	Solenoid Electric Latch Retraction with Battery Backup	12.6 A inrush for 200 ms @ 24 VDC 1.08 A holding current.	PS406BB/ PS426BB	2	PS426BB Power Supply is used with ESB and Auto Operator
9000 MLR Exit Device	Motorized Electric Latch Retraction	.88 A @ 24 VDC	PS610RF (24 VDC)	1	(2) MLR Exit Devices Require (1) PS532RF Power Supply (Set for 24 VDC)
9000 MD Exit Device	Magnetic Dogging	.25 A @ 12 VDC	PS610RF (12 VDC)	5	(2) PDM-4 Boards in PS610RF (available 12 V only)
9000 DE Exit Device	Delayed Egress	5 A inrush for 350 ms @ 24 VDC .5 A continuous @ 24VDC	ES100	1	ES100 Must be used with DE Exit Device to Maintain UL Listing
9000 DWA Exit Device	Direct Wired Alarm	.16 A @ 24 VDC when activated	PS610RF (24 VDC)	5	(2) PDM-4 Boards in PS610RF
9000 LFSF/LFSC Exit Device Trim	Electrified Trim	.15 A @ 24 VDC	ES100	2	—
9500 LFSF/LFSC Exit Device	Electrified Lock Chassis (9500 Series Only)	.21 A @ 24 VDC	PS610RF (24 VDC)	4	(1) PDM-4 Boards in PS610RF
8000 ES Exit Device	Solenoid Electric Latch Retraction	5 A inrush for 350 ms @ 24 VDC, .21 A holding current @ 24 VDC	ES100	2	—
8000 DWA Exit Device	Direct Wired Alarm	.16 A @ 24 VDC when activated	PS610RF (24 VDC)	5	(2) PDM-4 Boards in PS610RF
Electromagnetic Locks					
EML310	Single Door	.28 A @ 24 VDC	PS610RF (24 VDC)	3	(1) PDM-4 Boards in PS610RF
EML320	Pair of Doors	.56 A @ 24 VDC (Both Doors)	PS610RF (24 VDC)	1	—
EML371	Single Door	.26 A @ 24 VDC	PS610RF (24 VDC)	3	(1) PDM-4 Boards in PS610RF
EML372	Pair of Doors	.52 A @ 24 VDC (Both Doors)	PS610RF (24 VDC)	1	—
EMDE	Delayed Egress	.32 A @ 24 VDC	PS610RF (24 VDC)	2	—
Shear Locks					
EMSL2000, 2700	Single Door	.35 A @ 24 VDC	PS610RF (24 VDC)	2	—
Electric Strikes					
ES96F	—	.190 A @ 24 VDC	PS610RF (24 VDC)	4	(1) PDM-4 Boards in PS610RF
ES72F	—	.11 A @ 24 VDC	PS610RF (24 VDC)	7	(2) PDM-4 Boards in PS610RF
ES74F, ES79F	—	.190 A @ 24 VDC	PS610RF (24 VDC)	4	(1) PDM-4 Boards in PS610RF
ES84F, ES86F	—	.190 A @ 24 VDC	PS610RF (24 VDC)	4	(1) PDM-4 Boards in PS610RF
ES61	—	.30 A @ 24 VDC	PS610RF (24 VDC)	2	—
ES62	—	.24 A @ 24 VDC	PS610RF (24 VDC)	3	(2) PDM-4 Boards in PS610RF



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Fire/Life Safety					
EMF Series	—	.15 A @ 24 VDC	PS610RF (24 VDC)	5	(2) PDM-4 Boards in PS610RF
EMR Series	—	.165 A @ 24 VDC	PS610RF (24 VDC)	5	(2) PDM-4 Boards in PS610RF
1800 Series	—	.125 A @ 24 VDC	PS610RF (24 VDC)	5	(2) PDM-4 Boards in PS610RF
1800 SD Series	—	.150 A @ 24 VDC	PS610RF (24 VDC)	5	(2) PDM-4 Boards in PS610RF
EM Series	—	.015 A @ 24 VDC	PS610RF (24 VDC)	20*	*Maximum Capacity of (5) PDM-4 Boards in PS610RF Power Supply
Concealed Floor Closer					
BTS80EMB	—	.125 A @ 24 VDC	PS610RF (24 VDC)	7	(2) PDM-4 Boards in PS610RF
Closer/ Coordinators					
TS93 GSR EMF 1A, 1I	1 Solenoid	0.067 A @ 24 VDC	PS610RF (24 VDC)	13	(4) PDM-4 Boards in PS610RF
TS93 GSR EMF 2	2 Solenoids	0.134 A @ 24 VDC	PS610RF (24 VDC)	6	(2) PDM-4 Boards in PS610RF
Locksets					
M9000EU/EL	—	.21 A @ 24 VDC	PS610RF (24 VDC)	4	(1) PDM-4 Boards in PS610RF
C800EU/EL	—	.145 A @ 24 VDC	PS610RF (24 VDC)	6	(2) PDM-4 Boards in PS610RF

Minimum Wire Gauge Chart (AWG) for 24 VAC/DC

Distance in feet for 2 conductors from power source to locking device								
AMPS	25	50	75	100	150	200	250	300
.25	18	18	18	18	18	18	18	18
.50	18	18	18	18	18	18	18	16
.75	18	18	18	18	18	16	16	14
1.00	18	18	18	18	16	16	14	14
1.50	18	18	18	16	16	14		
2.00	18	18	16	16	14			
2.50	18	18	16	14				
3.00	18	16	14	14				

Maximum Wire Run from PS501 Power Supply to ES Exit Device in Feet x Wire Gauge

Wire	18 AWG	16 AWG	14 AWG	12 AWG
Feet	25	50	75	100

Note: Wire run is from power supply to device and back to power supply.