Catalog Number Selection

Table 4. PSS Catalog Numbering System

P S S 5 5 A

Model
PSS = Power Supply Switcher

Nominal Input Voltage Rating	
A = 115V AC	**D** = 480 – 600V AC
B = 230V AC	**E** = 110 – 240V AC
C = 360 – 480V AC (3-phase)	**F** = 380 – 480V AC

Wattage Rating	
10 = 10 Watts	**160** = 160 Watts
25 = 25 Watts	**300** = 300 Watts
55 = 55 Watts	**600** = 600 Watts
	1000 = 1000 Watts

Product Selection

Table 5. Power Supply Product Selection

Steady State Current (Amps)	Steady State Wattage	Input Voltage	Catalog Number	Price U.S. $
.4	10W	110 – 240 380 – 480	**PSS10E** **PSS10F**	99.50 121.00
1.0	25W	110 – 240 380 – 480	**PSS25E** **PSS25F**	125.00 150.00
2.3	55W	110 – 240 190 – 264 360 – 480 480 – 600	**PSS55A** **PSS55B** **PSS55C** **PSS55D**	233.00 233.00 279.00 580.00
6.5	160W	110 – 240 380 – 480	**PSS160E** **PSS160C**	342.00 399.00
12.5	300W	90 – 264 380 – 480	**PSS300E** **PSS300C**	471.00 580.00
25.0	600W	380 – 480	**PSS600C**	700.00
40.0	1000W	380 – 480	**PSS1000C**	1290.00

Table 6. PSS Sizing Chart

Frame Size	IEC Size	NEMA Size	Steady State Current	Inrush	
				Amps	Durahon
27 mm	A	N/A	.83A	.83A	30 mS
45 mm	B	00, 0	.13A	3.30A	50 mS
54 mm	C	1	.15A	3.80A	50 mS
76 mm	D	2	.21A	5.40A	65 mS
105 mm	E	3, 4	.23A	5.80A	85 mS
140 mm	F	5	.54A	8.30A	250 mS

Accessories

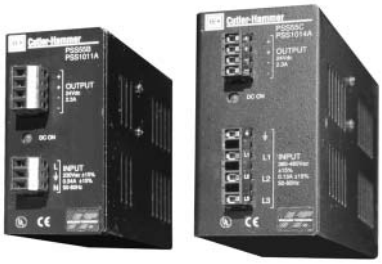
DIN-Rail Mounting Kit

Table 7. Kits

Description	Catalog Number	Price U.S. $
DIN-Rail Mounting Kit	**PSSDIN**	22.30

Discount Symbol **DT-1**

PSS Series



PSS Supplies

Product Description

Eaton's PSS Series of power supplies is designed to work in a variety of applications, including the power supply to the ***IT.*** line of power control products. They also work in most control applications that require 24V DC. All of the PSS power supplies are designed to provide the highest "outrush" current in the industry for units of their size. It is also the only line to provide 110 – 480V AC input voltage down to the smallest current units.

Application Description

The PSS line of power supplies is specifically designed to work with the S801, S811, MV811 and ***IT.*** electromechanical devices. They can also serve in a variety of other applications, including support of sensors, operator interfaces, PLCs, communication networks, heaters and lights and in many other industrial applications where 24V DC power supplies are required. With the widest operating temperature range in the industry, rugged design and a long list of advanced features, they can be applied in a very wide range of applications.

The higher input voltage ranges are designed to allow users to eliminate the need for a control power transformer in the enclosure or cabinet, thus saving space, wiring and money.

Features

- Wide range voltage input (110 – 480V AC operating).
- High current outrush capability in all units.
- Semiconductor F47 approved.
- Long ride-through capability designed in.
- Wide operating temperature range.
- Power supplies can be used in parallel (6.5A and greater).
- Multiple 24V DC terminals for easy wiring.
- DIN-rail and panel mount available in most units.
- Removable terminal connections.
- IP20 fingerproof design.
- Larger units have —
  - Active power factor correction
  - Adjustable output voltages
  - Fault contacts
  - Analog outputs

Benefits

- 24V DC control enhances personnel and equipment safety.
- IP20 design improves personnel safety.
- Removable terminal connectors make installation and repair quick and easy.
- Wide operating temperature range allows for installation in most areas where standard control products can be installed today.
- High current outrush capability allows use of smaller power supplies in many applications and ensures stable output during high power demand cycles.
- Due to long ride-through time, the Power Supply can maintain the control power system during brown out and black out conditions.

Standards and Certifications

- UL Listed 508.
- CSA Certified.
- CE Marked.
- F47 Certified.

Technical Data and Specifications

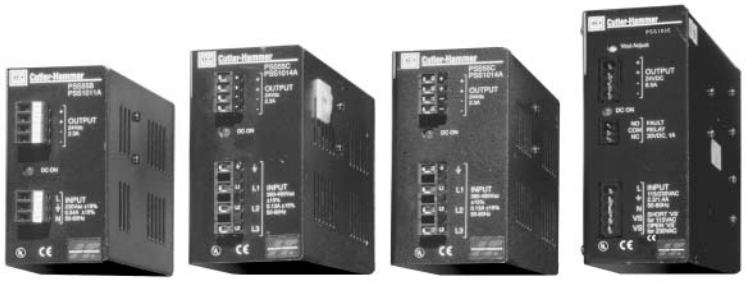


Table 8. Power Supply Specifications

Capacity	PSS10E	PSS10F	PSS25E	PSS25F	PSS55A	PSS55B	PSS55C	PSS55D
	10W	10W	25W	25W	55W	55W	55W	55W
Input								
Voltage	110 to 240V AC	380 to 480V AC	110 to 240V AC	380 to 480V AC	115V AC	230V AC	380 to 480V AC 3-Phase	480 to 600V AC 3-Phase
Input Current (RMS)	.19A	.1A	.45A	.17A	.9A	.54A	.20A/Phase	.07A/Phase
Frequency	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz	47 – 63 Hz
Voltage Range	± 10%	± 10%	± 10%	± 10%	± 15%	± 15%	± 10%	± 15%
Inrush Current	25A	25A	35A	35A	16A	32A	15A	15A
Overvoltage	330V AC	550V AC	330V AC	550V AC	Varistor	Varistor	Varistor	Varistor
Internal Input Fuse	T2A @ 250V	T2A @ 250V	T4A @ 250V	T2A @ 250V	T2A @ 250V	T2A @ 250V	3 x T2A @ 250V	—
External Fusing	Not Required 2A 250V AC Slow Blow							3 x 1A 600V AC Slow Blow
Output								
Voltage Nominal	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
Voltage Regulation	±10%	±10%	±10%	±10%	±3.5%	±3.5%	±3.5%	±3.5%
Current Nominal	.4A	.4A	1.0A	1.0A	2.3A	2.3A	2.3A	2.3A
Voltage Adj. Range	None	None	None	None	None	None	None	None
Current Surge	1A	1A	6.8A	6.8A	10A	10A	10A	10A
Current Surge Time	35 mS	35 mS	85 mS	85 mS	180 mS	180 mS	180 mS	180 mS
Surge Cycle Time					10 sec	10 sec	10 sec	10 sec
Hold Up Time	100 mS	100 mS	100 mS	100 mS	70 mS	70 mS	24 mS	30 mS
Max. Load Capacitance	10,000 µF	10,000 µF	10,000 µF	10,000 µF	10,000 µF	10,000 µF	10,000 µF	10,000 µF
Switching Frequency	60k Hz	60k Hz	100k Hz	100k Hz	100k Hz	100k Hz	100k Hz	61k Hz
Efficiency @ Max. Load	80%	75%	80%	80%	80%	80%	80%	85%
Output Ripple	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%