E-T-N Cutler-Hammer

Intelligent Technologies (*IT.*) Power Supplies Product Focus

Safe and Reliable Power for your Power Control Solutions

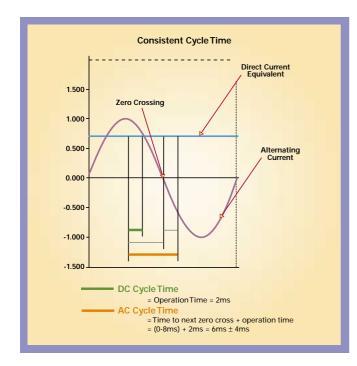


Innovative Power for your Facility



Power Supplies are a part of Cutler-Hammer Intelligent Technologies (*IT*.) by Eaton Corporation; a collection of forward-looking power control solutions. There's more to *IT*.





With an emphasis on reliability, safety, and overall customer profitability, we are proud to introduce Cutler-Hammer Power Supplies by Eaton Corporation.

What makes our power supplies so unique? In addition to featuring 24V DC control, there are four design differentiators that make our power supplies superior to those offered by other manufacturers.

- High Outrush Capacity only we can meet your high outrush demand – up to 5 times steady state current! Our design ensures enough power for closing DC contactors and provides plenty of power for starting up communication networks and large capacity systems.
- Higher Input Voltage Range – only our power supplies cover a 100 – 480V input, from 1 – 40 Amps. The power comes right off the line – safely. Eliminating the need for

the control power transformer reduces the size of the enclosure.

- Long Ride Through Capability. A built-in capacitance keeps the power flowing after the voltage has dropped. With 24V DC power supplies, you'll get top performance in low power quality areas. Our power supplies are immune to low voltage issues and able to ride through power dips and blackouts.
- DIN & Panel Mount take your pick. Our power supplies can be mounted on a flexible and versatile DIN Rail or on a sturdy and solid panel mount. Unlike other manufacturers, we give you the choice.

Why 24V DC control?

Control via 24V DC is reliable, inexpensive, globally accepted, and offers huge safety advantages over traditional AC control. Many products ranging from sensors to PLCs to valve manifolds have already changed to 24V DC power.

The use of solid-state DC power reduces PLC output card costs, increases output card reliability, and simplifies compliance with CE marking requirements and safety standards.

Suffering brown outs and voltage sags at your plant?

24V DC control will help you ride through voltage sags in your system and prevent contactors from dropping out. It also protects the data in your sensing and SCADA systems and prevents unwanted resets. These savings translate to better uptime and prevent the loss or damage of products in production. Our Power Supplies meet all F47 Semicon specifications for ride through. This exceptional performance keeps you up and running while your competition works on getting started up - again.

Cost Savings

With our power supplies, you will save money on your PLC input and output (I/O) cards. DC I/O cards last longer and don't incur Triacs-related leakage. By eliminating the control power transformer, you'll save space and money on the size of the enclosure.

	PSS10E	PS	
Input Specifications		1	
Input Voltage Range (V AC)	90-260	360	
Input Frequency (HZ)	50/60		
Input Protection	Fuse		
Impulse Withstand	6 kV		
Output Specifications			
Output Voltage	24V	-	
Regulation	±3%	±	
Ripple		RMS	
Switching Frequency	60 I		
Efficiency @ Full Load	85%	8	
Max. Outrush Current (amps)	1		
Max. Outrush Time (msecs)	3	0	
Monitoring Signals/Indications			
Status Indicators	Green LE	ED DC	
Fault Relays	N	0	
Monitor Signals	No		
	I.	U	
Environmental Performance			
Temperature—Operating (no de-rate)	-5° to	65° C	
De-Rating (Max 6)	No	ne	
Storage	-30° to	o 80 °	
Humidity	95% F	RH No	
	conde	ensing	
Altitude (Meters)	20	00	
Vibration	3G		
Shock	15	G	
Physical Data			
Wire Size	20-12	AWG	
Ingress Protection	IP20		
Dimension (WxHxD)			
In Inches	1.9x4	.5x4.5	
In Millimeters	50x11		
Weight lbs. (Kg)		(.36)	
Mounting—Standard		1/DIN	
Approvals/Certifications		us/CE	
	COL	JUL	

1 Available summer 2002 2 Available summer 2002 3 Available May 2002

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S10F	PSS25E	PSS25F	PSS55A	PSS55B	PSS55C	PSS160E	PSS160C	PSS300E	PSS300C1	PSS600C	PSS1200C2
0-500	90-260	360-500	90-140	180-260	360-500	90-260	360-500	90-260	360-500	360-500	360-500
	50	/60	50/60		50/60		50/	/60	50/60	50/60	
	Fuse			Fuse		Fu	se	Fu	se	Fuse	Fuse
	6 kV		2 kV 4 kV		2 kV 4 kV		2 kV 4 kV		4 kV	4 kV	
	24V DC		24V DC		24V DC		24V DC		24V DC	24V DC	
3%	±3% ±3%		±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	.1%	RMS		.1% RMS		.1%		.1% RMS		.1% RMS	.1% RMS
		KHz	100 KHz		65 KHz		100 KHz		100 KHz	100 KHz	
5%	85%	85%			85%	85%	85%	85%	85%		
		.5		10		13	20	25	0070	50	0070
	90			200		200	200	200		200	
	30			200		200	200	200		200	
On	Croon		C .		On	Cream		Crean		Crean LED	Crean LED
On	Green LED DC On		ireen LED DC On Green LED DC On		OII	Green LED DC On		Green LED DC On, Yellow LED Current Limit,		Green LED DC On,	Green LED DC On,
								Red LED Fault		Yellow LED	Yellow LED
										Current Limit,	Current Limit,
										Red LED Fault	Red LED Fault
	No			No		Form C		Form C		Form C	Form C
	No		No		No		Output Voltage		Output Voltage	Output Voltage	
							Output Current Internal Temp.		Output Current	Output Current	
								Interna	nemp.	InternalTemp.	InternalTemp.
	-5° to 65° C		5° to 65° C -30° to 50° C		-30° to 50° C		-30° to 50° C		-30° to 50° C	-30° to 50° C	
				0.50/ 0.6		0.50/	(0.50/	0.5%
		None		0.5% per ° C		0.5% per ° C		0.5% per ° C		0.5% per ° C	0.5% per ° C
С		-30° to 80 ° C -40° to 85° C		-40° to 85° C		-40° to 85° C		-40° to 85° C	-40° to 85° C		
n-	95% RH Non-			95% RH Non-		95% RH Non- condensing		95% RH Non- condensing		95% RH Non-	95% RH Non-
9	condensing			condensing)		-		-	condensing	condensing
	2000			2000		2000		2000		2000	2000
	3G		3G		3G		3G		3G	3G	
	15G		15G		15G		15G		15G	15G	
	20-12	AWG	20-12 AWG		20-12 AWG		20-12 AWG		20-12 AWG	20-12 AWG	
	IP20		IP20		IP20		IP20		IP20	IP20	
	1.9x4.	5x4.5	2.1x3.	8x5.6	2.3x4.2x6.8	2.2x5.	0x6.8	9.5x4.1x6.1	TBD	3	TBD
	50x114		53x98		59x107x172	57x12		242x104x155		3	TBD
	0.79				1.16 (.53)	1.93		2.6 (1.18)	TBD	3	TBD
			1.05 (.48) 1.16 (.53) Panel (DIN kit available)		Panel		Panel/DIN		Panel/DIN	Panel	
	Panel/DIN cULus/CE		i anei	cULus/CE		cULu		cULu		cULus/CE	cULus/CE
	COLUS/CE			SOLUS/OL		toLu	SIGE	L	IS/UL	COLUS/CL	COLUSICE

Eaton's Cutler-Hammer business is a worldwide leader providing customerdriven solutions. From power distribution and electrical control products to industrial automation, the Cutler-Hammer business utilizes advanced product development, world-class manufacturing, and offers global engineering services and support. To learn more about Eaton's innovative Cutler-Hammer products and solutions call 1-800-525-2000, for engineering services call 1-800-498-2678, or visit www.cutler-hammer.eaton.com.

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