



# High Peak Power AC-DC Power Supply



AEA600F



AEA800F



AEA1000F

**600/800/1000W**

**NEW**

# AEA

series

# Fanless for demanding Medical and Robotics industries



## Patient safety

Medical approval  
2 MOPP (I/O) and 1 MOPP (O/G)  
4kVAC isolation  
Low leakage current < 0.3mA



## Fanless

For silent and reliable operation in demanding environments  
Low maintenance and Cost of Ownership



## High power density design

40% space reduction and < 1U height for easy integration in compact systems



## Digital communication

Optional RS-485 bus available for digital system monitor and control



## Proven reliability

Market leading failure rate of < 30ppm  
5 years warranty  
10 years of expected lifetime



AEA1000



AEA8000



AEA10000

# 3x Peak Power and OVC III for Factory Automation

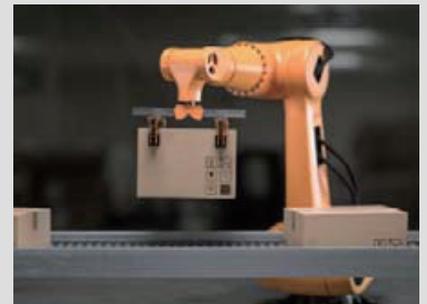
## Repetitive peak load

Extra high 300% peak capability  
Designed for robotics requirements  
Perfect for motors and amplifiers



## Low Power Losses

Up to 95% efficiency  
Simplified thermal management  
and high reliability systems



## Robust and safe

Layout optimized for free air  
circulation and operation in  
dusty environments



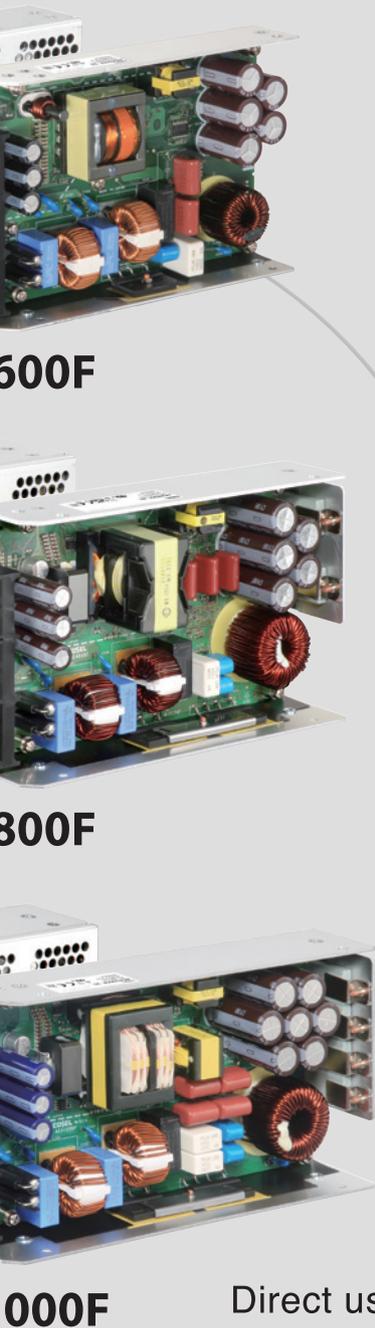
## Easy scalability

Parallel up to 6 devices  
and 12.9kW peak power



## For Fixed Installations

Direct use in Factory and Building Automation  
OVC III approval (EN62477-1)  
Withstands 4kV transient voltage



# AEAseries

**NEW**

Model		AEA600F				AEA800F				AEA1000F		
DC Output		24V	32V	36V	48V	24V	30V	36V	48V	24V	36V	48V
Input Voltage		85VAC-264VAC, 1φ (Output derating is required at 85VAC-170VAC)										
Output Current / Output Power (90VAC-170VAC)	Convection	14.0A 336W	10.5A 336W	9.4A 338W	7.0A 336W	17.6A 422W	14.1A 423W	11.7A 421W	8.8A 422W	22.5A 540W	15.0A 540W	11.3A 542W
	Forced air	20.0A 480W	15.0A 480W	13.4A 482W	10.0A 480W	25.5A 612W	20.4A 612W	17.0A 612W	12.7A 609W	31.5A 756W	21.0A 756W	15.8A 758W
	Peak	42.0A 1008W	31.5A 1008W	28.0A 1008W	21.0A 1009W	54.3A 1303W	43.5A 1305W	36.3A 1306W	27.2A 1305W	75.0A 1800W	50.0A 1800W	37.5A 1800W
Output Current / Output Power (170VAC-264VAC)	Convection	17.5A 420W	13.2A 422W	11.7A 421W	8.8A 422W	23.5A 564W	18.8A 564W	15.7A 565W	11.8A 566W	30.0A 720W	20.0A 720W	15.0A 720W
	Forced air	25.0A 600W	18.8A 601W	16.7A 601W	12.5A 600W	34.0A 816W	27.2A 816W	22.7A 817W	17.0A 816W	42.0A 1008W	28.0A 1008W	21.0A 1008W
	Peak	52.5A 1260W	39.4A 1260W	35.0A 1260W	26.3A 1262W	72.5A 1740W	58.0A 1740W	48.4A 1742W	36.3A 1742W	100.0A 2400W	66.7A 2401W	50.0A 2400W
Power Factor (100VAC / 230VAC, I <sub>o</sub> =100% *)		0.98typ / 0.95typ										
Efficiency (100VAC / 230VAC, I <sub>o</sub> =100% *)		92.0% 94.5%	92.0% 95.0%			92.5% 95.0%		92.5% 95.5%		92.0% 95.0%		
Leakage Current (240VAC, 60Hz, I <sub>o</sub> =100% *)		0.30mA max.										
Operating Temperature		-20°C to +70°C (Output derating is required)										
Voltage Dip Outputtable Load Factor	IEC60601-1-2	Dip 100% (100VAC→0VAC) 20msec.				Criteria A Load Factor is 100%* or less						
		Dip 60% (100VAC→40VAC) 100msec.										
		Dip 30% (100VAC→70VAC) 500msec.										
	SEMI F47-0706	Dip 50% (100VAC→50VAC) 200msec.										
		Dip 30% (100VAC→70VAC) 500msec.										
		Dip 20% (100VAC→80VAC) 1000msec.										
Agency Approvals		UL62368-1, ANSI/AAMI ES 60601-1, C-UL (equivalent to CAN/CSA-C22.2 No.62368-1, CAN/CSA-C22.2 No.60601-1), EN62368-1, EN60601-1 3rd, EN62477-1 (OVC III), UL508 (Optional: -T5 *Excl. 30VDC/32VDC Model) Complies with IEC60601-1-2 (2014), EN60601-1-2 (2015)										
Conducted Noise		Complies with FCC Part15 classB, VCCI-B, CISPR32-B, EN55011-B, EN55032-B										
Harmonic Attenuator		Complies with EN61000-3-2 classA										
Case Size (W x H x D) (Excl. terminal block)		41 x 127 x 186 mm [1.61 x 5.00 x 7.32 inches]				50 x 127 x 203.2 mm [1.97 x 5.00 x 8.00 inches]				50 x 127 x 228.6 mm [1.97 x 5.00 x 9.00 inches]		
Weight		1.0kg max.				1.3kg max.				1.5kg max.		

\*Load 100% means the output current under forced air.

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