

SMPS SERIES AC 7000 N1

High reliability 7 KW rectifier for industrial applications



Picture 1 shows 110VDC / 220VDC Version



Picture 2 shows 24VDC version

The Switch Mode Power Supply (SMPS) AC7000 N1 product family is a logical further development of the proven series AC7000 from AEG Power Solutions. it has a 7000 W output power at 24, 110/120 and 220 VDC. High reliability

due to advanced protection (input, output, temperature, current, power) and a high MTBF. The rectifier provides secured DC power in combination with a parallel battery, to supply of all types of DC consumer loads including constant voltage and current sources

FEATURES

- Robust design
- characteristic curve changeover via external contacts
- Low voltage ripple to prolong battery life
- Automatic stop at high and low mains voltage with automatic restart
- Self-protection against high temperature conditions via automatic switch-off and automatic restart
- Double row LCD display for output voltage and output current
- ROHS compliant

BENEFITS

- Adapted to charge many types of batteries including: vented lead acid, valve regulated lead-acid (VRLA) or nickel-cadmium batteries (NiCd)
- The system can also be used as a direct power supply without batteries
- Switchable via external contact between float charge, boost charge, manual charge, Genset (all adjustable via potentiometer)

SMPS AC7000 N1 EN previous technical information

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Specifications AC 7000 N1

Output rating from single rectifier	24 V / 250 A	110 V / 75A	220 V / 30 A	
Part Number	3000001261	3000001401	3000001281	
Input voltage	3 x 400 VAC ± 10%			
Input frequency	47 Hz to 63 Hz			
Current consumption	3 x 11.5 A	3 x 12 A*	3 x 12.2 A	
Inrush current		1.0 nominal peak current		
Power factor		0.92		
Output voltage nominal	24 VDC	110VDC	220 VDC	
(default)	(26.8 VDC)	(122.7 VDC)	(245.3 VDC)	
Setting range	18 to 32 VDC	105 to 135 VDC	180 to 280 VDC	
Output current	250 A	75 A*	60 A	
Setting range (adjustable current limit)	150 to 250 A	25 to 75 A*	17 to 30 A	
Voltage ripple	< 30 mV pp*	< 30 mV pp*	< 30 mV pp*	
Efficiency	89 %	92 %	92 %	
e and load regulation <1%				
Dynamic response	response $\leq 5\%$ for $10\% - 90\%$,			
	recovery to normal regulation limits < 5 ms			
Short circuit response	P	Permanentiy short circuit proot		
Parallel operation	Numb	Number unlimited, current sharing approx. 20%		
Characteristic line	IU Characteristics in acc. to DIN 41772			
Mains-side monitoring	Under- voltage/over-voltage with switch-off, self-acknowledging			
Output-side monitoring	Over voltage with switch-off / under voltage without switch-off			
Alarms		Double row LCD display		
undervoltage	LED. FOWER OIL, OVER LEITIPERALURE, DE OVERVOILABE, DE			
Design	19" MODULE SU (11UV/22UVDC) / 6U (24VDC) for installation in 10" rack			
Degree of protection				
Mechanical strength and vibration resistance	EN 60068-2-6*			
Equipment color	Α	Anodized aluminum (front plate)		
Dimensions W x H x D	483 x 265 9 x 400 mm	483 x 221 4 x 400 mm	483 x 221 4 x 400 mm	
	(19" x 6HU)	(19" x 5HU)	(19" x 5HU)	
Weight	approx. 29 kg	approx. 26 kg	approx. 26 kg	
Connections		front connections		
Type of cooling		Forced air cooling		
Operating temperature		0°C to 45 °C		
Storage temperature	-4	-40°C to 70°C (in original packing)*		
Environmental conditions	EN 6072	EN 60721 part 3-3 class 3K3/3Z1/3B1/3C1/3S2/3M2		
Installation height		Up to 1000 m above sea level at nominal load		
STANDARDS				
Safety		EN 62477-1:2017		
EMC		EN 61000.6-2. 3. 4. 5		
Environment		EN 60721-3-1. 2. 3. ROHS		

* previous values

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