

AMF Series

500VA~400kVA

CE



400Hz Power
Supply / Ground
Power Unit

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SYSTEMS

THE POWER TEST EXPERTS

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AMF

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400Hz Power Supply / Ground Power Unit

500VA~400kVA

CE



Trailer Type

- Output voltage 115/200V with an adjustable range of 10% and two types of output frequency 400Hz fixed and 350~450Hz djustable.
- Optional overload function: 120% for 60mins, 150% for 60secs, and 200% for 15secs.
- Follows standards of MIL-STD-704 F.
- 4 LED displays shows measurements of voltage, current, frequency and power.
- Compact size for easier maintenance and high power density.
- Comprehensive protection with corresponding error codes.
- Able to operate under unbalanced load conditions.
- Able to handle reverse energy generated by motor type EUT.

Interfaces

RS-485

● Standard

Applications

- Aerospace & Defense
- Component Verification
- Repair Stations
- Hangars

AMF Series

The AMF series power supply is designed for 400Hz aerospace and military applications, including laboratory use, ground power for hangar and repair station, airport and factory. Stable 400Hz power input helps users on inspections, aging tests, and supplying power to aircraft.

Output voltage of the AMF series is 115/200V with an adjustable range of 10%. Users can switch between output frequency 400Hz fixed and 350~450Hz adjustable. With overload drive capability and reverse energy protection, the AMF series is ideal for motor, aerospace and military types of application.

SPECIFICATIONS

AMF Series Single-Phase Output (500VA - 100kVA)

Model	AMF-500W	AMF-11001	AMF-11003	AMF-11005	AMF-11010	AMF-11020	AMF-31030	AMF-31045	AMF-31060	AMF-31100	
INPUT											
Phase	1 Ø / 2 Wire + G						3Ø / 4 Wire (Y)+G (Option : 3Ø / 3 Wire (Δ) +G)				
Voltage*1	110V/220V±15%		220V±15%			220V/380V±15% (Option : 220V±15%)					
Frequency	50Hz ± 3Hz or 60Hz ± 3Hz										
Max. Current*2	7.4A	14.9A	21.7A	36.2A	72.3A	145A	72A	109A	145A	241A	
Power Factor	≥0.8 (Max. Power)			≥0.85 (Max. Power)							
OUTPUT											
Power	VA	500VA	1kVA	3kVA	5kVA	10kVA	20kVA	30kVA	45kVA	60kVA	100kVA
Phase	1 Ø / 2 Wire + G										
Voltage Ranges	Standard : 115V±10% Option : 220V±10% or 230V±10%										
Voltage Resolution	0.1V										
Voltage Accuracy	0.5% F.S.+4 counts										
Frequency Range	400Hz fixed and 350Hz ~ 450Hz variable (contact us for other frequency range)										
Frequency Resolution	0.1Hz										
Frequency Accuracy	±0.5% F.S.										
Max. Current (RMS) at 115V	4.3A	8.7A	26.1A	43.5A	87A	173.9A	260.9A	391.3A	521.7A	869.6A	
Max. Current (RMS) at 220V (Opt.)	2.3A	4.5A	13.6A	22.7A	45.5A	90.9A	136.4A	204.5A	272.7A	454.5A	
Max. Current (RMS) at 230V (Opt.)	2.2A	4.3A	13.0A	21.7A	43.5A	87.0A	130.4A	195.7A	260.9A	434.8A	
Line Regulation	≤ 0.5%		< 1%				< 1.5%				
Load Regulation	≤ 0.5% (Resistive Load)		≤ 1% (Resistive Load)				≤ 1.5% (Resistive Load)				
Total Harmonic Distortion (THD)	≤ 0.5% (Resistive Load)		≤ 2% (Resistive Load)				≤ 3% (Resistive Load)				
Response Time	≤ 2ms										
MEASUREMENT											
Voltage Range	0V-300.0V										
Voltage Resolution	0.1V										
Voltage Accuracy	0.5% F.S.+4 counts										
Frequency Range	0~999.9Hz										
Frequency Resolution	0.1Hz										
Frequency Accuracy	±0.5% F.S.										
Current Range (RMS)	0-999A										
Current Resolution (RMS)	0.001A / 0.01A		4 Digits Meter / Resolution : 0.1A				5 Digits Meter / Resolution : 0.1A				
Current Accuracy (RMS)	0.2% F.S.+4 counts										
GENERAL											
Efficiency	≥ 45% at Max. Power			≥ 87% at Max. Power							
HMI	Digital LED Meters										
Overload Capacity	-		120%/1 hour, 150%/1 minute, 200%/15 seconds *3								
Protection	Input / Output Circuit Breakers and Protection Circuitry for OVP, OCP, OPP, OTP and Short Circuit										
Operational Temperature	-20°C ~ 45°C										
Humidity	0~90% (Non condensing)										
Altitude	< 1,500m										
Dimensions (H x W x D)	200 x 430 x 520mm	720 x 430 x 520mm			990 x 430 x 750mm	1240 x 600 x 970mm		1600 x 800 x 1090mm		1800 x 1050 x 970mm	
	7.87 x 16.92 x 20.47inch	28.34 x 16.92 x 20.47inch			38.97 x 16.92 x 29.52inch	48.81 x 23.62 x 38.18 inch		62.99 x 31.49 x 42.91 inch		70.86 x 41.33 x 38.18inch	
Weight	44kg	60kg	73kg	89kg	150kg	280kg	333kg	418kg	571kg	898kg	
	97lbs	132.3lbs	160.9lbs	196.2lbs	330.7lbs	617.3lbs	734.1lbs	921.5lbs	1258.8lbs	1979.8lbs	

*1 Please contact us for other voltage specification.

*2 The rated input voltage is 220V or 220V/380V.

* all specifications are subject to change without notice.

*3 The unit needs a interval of at least 3 times of overload time for the next overload operation. For example, for every 1-hour of 120% overload operation, the unit needs at least 3 hours (1 hour*3) of interval for the next overload operation.

SPECIFICATIONS

AMF Series three-Phase Output (6kVA - 75kVA)

Model	AMF-33006	AMF-33010	AMF-33015	AMF-33020	AMF-33030	AMF-33045	AMF-33060	AMF-33075
INPUT								
Phase	3Ø / 4 Wire (Y)+G (Option : 3Ø / 3 Wire (Δ) +G)							
Voltage ^{*1}	220V/380V±15% (Option : 220V±15%)							
Frequency	50Hz ± 3Hz or 60Hz ± 3Hz							
Max. Current ^{*2}	14.5A	24.1A	36.2A	48.2A	72.3A	108.5A	144.6A	180.8A
Power Factor	≥ 0.85 (Max. Power)							
OUTPUT								
Power	6kVA	10kVA	15kVA	20kVA	30kVA	45kVA	60kVA	75kVA
Phase	3Ø / 4 Wire + G							
Voltage Ranges	115V/200V±10%							
Voltage Resolution	0.1V							
Voltage Accuracy	0.5% F.S.+4 counts							
Frequency Range	400Hz fixed and 350Hz ~ 450Hz variable (contact us for other frequency range)							
Frequency Resolution	0.1Hz							
Frequency Accuracy	±0.5% F.S.							
Max. Current (RMS)	17.4A	29A	43.5A	58A	87A	130.4A	173.9A	217.4A
Line Regulation	≤ 0.5%						≤ 1%	
Load Regulation	≤ 1%						≤ 1.5%	
Total Harmonic Distortion (THD)	≤ 2%						≤ 3%	
Response Time	≤ 2ms							
MEASUREMENT								
Voltage Range	0V-300.0V							
Voltage Resolution	0.1V							
Voltage Accuracy	0.5% F.S.+4 counts							
Frequency Range	0~999.9Hz							
Frequency Resolution	0.1Hz							
Frequency Accuracy	±0.5% F.S.							
Current Range(RMS)	0-999A							
Current Resolution(RMS)	4 Digits Meter / Resolution : 0.1A						5 Digits Meter / Resolution : 0.1A	
Current Accuracy(RMS)	0.2% F.S.+4 counts							
GENERAL								
Efficiency	≥ 87% at Max. Power							
HMI	Digital LED Meters							
Phase Angle	For Balanced Load: ≤ ± 2° ; For 100% Unbalanced Load: ≤ ± 4°							
Overload Capacity	120%/1 hour, 150%/1 minute, 200%/15 seconds ^{*3}							
Protection	Input / Ouput Circuit Breakers and Protection Circuitry for OVP, OCP, OPP, OTP and Short Circuit							
Operational Temperature	-20°C ~ 45°C							
Humidity	0~90% (Non condensing)							
Altitude	< 1,500m							
Dimensions (H x W x D)	990 x 430 x 750mm		1240 x 600 x 970mm			1600 x 800 x 1090mm		
	38.97 x 16.92 x 29.52inch		48.81 x 23.62 x 38.18inch			62.99 x 31.49 x 42.91inch		
Weight	150kg	175kg	265kg	345kg	385kg	528kg	635kg	700kg
	330.7lbs	385.8lbs	584.2lbs	760.6lbs	848.8lbs	1164lbs	1399.9lbs	1543.2lbs

*1 Please contact for other voltage specification.

*2 The rated input voltage is 220V/380V.

* all specifications are subject to change without notice.

*3 The unit needs a interval of at least 3 times of overload time for the next overload operation. For example, for every 1-hour of 120% overload operation, the unit needs at least 3 hours (1 hour*3) of interval for the next overload operation.

SPECIFICATIONS

AMF Series three-Phase Output (100kVA - 400kVA)

Model	AMF-33100	AMF-33120	AMF-33150	AMF-33180	AMF-33200	AMF-33250	AMF-33300	AMF-33400
INPUT								
Phase	3Ø / 4 Wire (Y)+G (Option : 3Ø / 3 Wire (Δ) +G)							
Voltage ^{*1}	220V/380V±15% (Option : 220V±15%)							
Frequency	50Hz ± 3Hz or 60Hz ± 3Hz							
Max. Current ^{*2}	241A	289.3A	361.6A	433.9A	482.1A	602.6A	723.1A	964.2A
Power Factor	≥ 0.85 (Max. Power)							
OUTPUT								
Power	100kVA	120kVA	150kVA	180kVA	200kVA	250kVA	300kVA	400kVA
Phase	3Ø / 4 Wire + G							
Voltage Ranges	115V/200V±10%							
Voltage Resolution	0.1V							
Voltage Accuracy	0.5% F.S.+4 counts							
Frequency Range	400Hz fixed and 350Hz ~ 450Hz variable (contact us for other frequency range)							
Frequency Resolution	0.1Hz							
Frequency Accuracy	±0.5% F.S.							
Max. Current (RMS)	289.9A	347.8A	434.8A	521.7A	579.7A	724.6A	869.6A	1159.4A
Line Regulation	≤ 1%							
Load Regulation	≤ 1.5%							
Total Harmonic Distortion(THD)	≤ 3 %							
Response Time	≤ 2ms							
MEASUREMENT								
Voltage Range	0V-300.0V							
Voltage Resolution	0.1V							
Voltage Accuracy	0.5% F.S.+4 counts							
Frequency Range	0~999.9Hz							
Frequency Resolution	0.1Hz							
Frequency Accuracy	±0.5% F.S.							
Current Range(RMS)	0-999A							
Current Resolution(RMS)	5 Digits Meter / Resolution : 0.1A							
Current Accuracy(RMS)	0.2% F.S.+4 counts							
GENERAL								
Efficiency	≥ 87% at Max. Power							
HMI	Digital LED Meters							
Phase Angle	For Balanced Load: ≤ ± 2° ; For 100% Unbalanced Load: ≤ ± 4°							
Overload Capacity	120%/1 hour, 150%/1 minute, 200%/15 seconds ^{*3}							
Protection	Input / Ouput Circuit Breakers and Protection Circuitry for OVP, OCP, OPP, OTP and Short Circuit							
Opertional Temperature	-20°C ~ 45°C							
Humidity	0~90% (Non condensing)							
Altitude	< 1,500m							
Dimensions (H x W x D)	1800 x 1050 x 970mm		1900 x 1150 x 1240mm				2000 x 2240 x 1240mm	
	70.86 x 41.33 x 38.18inch		74.8 x 45.27 x 48.81inch				78.7 x 88.18 x 48.81inch	
Weight	1000kg	1200kg	1350kg	1800kg	2000kg	2270kg	2740kg	3030kg
	2204.62lbs	2645.54lbs	2976.24lbs	3968.32lbs	4409.24lbs	5004.49lbs	6040.66lbs	6680lbs

*1 Please contact for other voltage specification.

*2 The rated input voltage is 220V/380V.

* all specifications are subject to change without notice.

*3 The unit needs a interval of at least 3 times of overload time for the next overload operation. For example, for every 1-hour of 120% overload operation, the unit needs at least 3 hours (1 hour*3) of interval for the next overload operation.

Contact Us

sales@inteproate.com

Americas

Intepro Systems America,LP
14662-E Franklin Ave
Tustin,CA 92780
Tel : 1 714 953 2686

service@inteproate.com

Europe

Intepro UK Ltd.
9 Lakeside Business Park
Swan Lane , Sandhurst Berkshire
GU47 9DN / UK
Tel : 44 012 5287 5600

www.inteproate.com

Asia-Oceania

**Intepro Power Electronics
(Shenzhen) Co.,Ltd**
No.828, Block 7,
Fourth Industrial Area
Nanyou, Nashan District
Shenzhen, China 518052
Tel: 0086 755 86500020