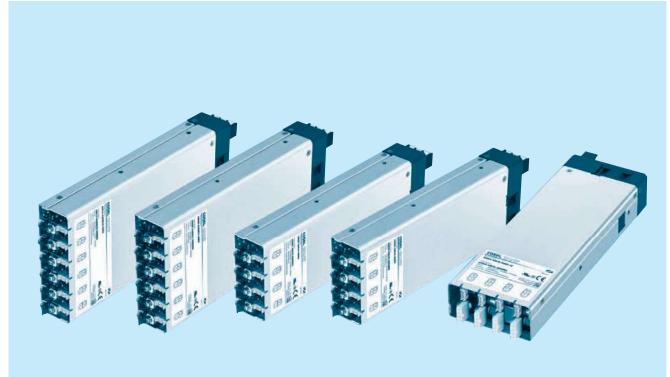


AC-DC Power Supplies Configurable Type



AME-series



The AME series has Order Name which is used for the ordering aside from Model Name. The connector type is optional.

Low Voltage Directive RoHS Directive

CE marking

EMI

Complies with FCC-B, CISPR11-B, CISPR32-B, EN55011-B, EN55032-B, VCCI-B

EMS Compliance : EN61204-3, EN61000-6-2

EN61000-4-2

EN61000-4-3 EN61000-4-4

EN61000-4-5

EN61000-4-6

EN61000-4-8

EN61000-4-11

EN61204-3, EN61000-6-2 IEC60601-1-2 (2014), EN60601-1-2 (2015)

Feature

Flexible modular system architecture provides various output configuration Low profile (41mm, 1.61inch=meet to 1U height) Universal input (AC85-264V) For medical electric equipment (ANSI/AAMI ES60601-1, EN60601-1 3rd, IEC60601-1-2 4th Ed.)

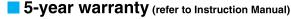
With AUX output 5V 1A Global inhibit, Remote ON/OFF control

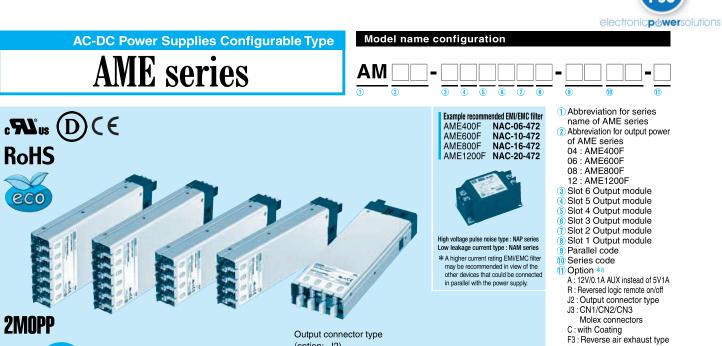
Connector type output terminal (Option)

Monitoring function and some parameter changes by communication are available (Option)

Safety agency approvals

UL62368-1, ANSI/AAMI ES60601-1 C-UL (CAN/CSA62368-1), C-UL (CAN/CSA60601-1) EN62368-1, EN60601-1 3rd







Output connector type (option: -J2)

> The AME series has Order Name which is used for the ordering aside from Model Name.

G : Low leakage current I3 : with Extended-UART interface I : with PMBus interface

Refer to instruction manual 6.1

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

SPECIFICATIONS

	MODEL		AME400F	AME600F	AME800F	AME1200F			
	VOLTAGE [VAC]	*2	85-264 1 <i>¢</i>			·			
Ì		ACIN 100V *7	3.0typ	5.0typ	7.0typ	12typ			
	CURRENT [A]	ACIN 230V *7	2.0typ	3.2typ	4.0typ	6.4typ			
ľ	FREQUENCY [Hz]		50/60 (45 - 66)						
INPUT		ACIN 100V *7	85typ	87typ	87typ	88typ			
	EFFICIENCY [%]	ACIN 230V *7	89typ	91typ	90typ	91typ			
		ACIN 100V *7	0.98typ	0.98typ	0.98typ	0.98typ			
	POWER FACTOR	ACIN 230V *7	0.95typ	0.95typ	0.95typ	0.95typ			
		ACIN 100V *1	15/50typ (Po = 100%)(Pr	imary inrush current / Sec	condary inrush current) (N	lore than 3 sec. to re-start)			
	INRUSH CURRENT [A]	ACIN 230V *1	35/50typ (Po = 100%)(Pr	imary inrush current / Sec	condary inrush current) (N	lore than 3 sec. to re-start)			
	LEAKAGE CURRENT [m	Ă]							
	NUMBER OF SLOT		4		6				
Ĩ		ACIN 90-150V *2	250	400	600	1000			
DUTPUT	TOTAL OUTPUT [W]	[W] ACIN 170-264V ∗2 400 600 800 1200 [ms] 800typ (ACIN 100V, Po = 100%) 500	1200						
[START-UP TIME [ms]		300typ (ACIN 100V, Po = 100%)						
	HOLD-UP TIME [ms]	*7	20typ (ACIN230V, Po = 8	0%) / 16typ (ACIN230V, F	Po = 100%)				
	AUXILIARY POWER (AU	X)	5V1A						
	GLOBAL INHIBIT (GI)		Provided						
	ALARM (PR)		Provided						
	INPUT - OUTPUT		4,000VAC 1minute, Cuto	ff current = 10mA, 500VD	C 50M Ω min (At Room Te	emperature) 2MOPP			
	INPUT - FG		2,000VAC 1minute, Cutoff current = 10mA, 500VDC 50M Ω min (At Room Temperature) 1MOPP						
SOLATION	OUTPUT - FG (Except output	module V, V4, V5)	500VAC 1minute, Cutoff current = 100mA, 500VDC 50M Ω min (At Room Temperature)						
	OUTPUT - FG (Output module	V, V4, V5)	1,000VAC 1minute, Cutoff current = 100mA, 500VDC 50MΩ min (At Room temperature) 1MOOP						
	OUTPUT - RC, LV, AUX,	PR, GI 🛛 *3	500VAC 1minute, Cutoff	ded ded VAC 1minute, Cutoff current = 10mA, 500VDC 50MΩ min (At Room Temperature) 2MOPP VAC 1minute, Cutoff current = 10mA, 500VDC 50MΩ min (At Room Temperature) 1MOPP AC 1minute, Cutoff current = 100mA, 500VDC 50MΩ min (At Room Temperature)					
	OPERATING TEMP., HUMIDITY. A	ND ALTITUDE *2	-20 to +70℃, 20 - 90%R	H (Non condensing)					
	STORAGE TEMP., HUMIDITY. AM	ND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing)						
	VIBRATION		10 - 55Hz 19.6m/s ² (2G) 3minutes period, 60minutes each along X, Y and Z axis						
	IMPUCT		196.1m/s² (20G) 11ms, c	nce each X, Y and Z axis					
SAFETY AND NOISE	AGENCY APPROVALS		UL62368-1, C-UL (CAN/CSA-C22.2 No.62368-1), EN62368-1, ANSI/AAMI ES60601-1, C-UL (CAN/CSA-C22.2 No.60601-1), EN60601-1 3rd Complies with IEC60601-1-2 4th Ed.						
REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, V	CCI-B, CISPR11-B, CISPI	R32-B, EN55011-B, EN55	032-B			
	HARMONIC ATTENUATO	DR *5	Complies with IEC61000	-3-2 (classA)					
	CASE SIZE	*4	89×41×257mm (W×H [3.50×1.61×10.12 inch		127×41×257mm [5.00×1.61×10.12				
OTHERS	WEIGHT [kg]		1.2max		1.8max	•			
	COOLING METHOD		Forced cooling (internal fan)						

*1 The current of input surge to a built-in EMI/EMS Filter(0.2ms or less) is excluded.

*2

Refer to "Derating". Each output module,V1-V2 (only module R), RC, LV, AUX (include G11), PR and GI (GI2,GIG) are isolated. *3

Case size contains neither the terminal blocks, screw nor other projections. *4

*5 Please contact us about other classes. 6 Please contact us about safety approvals for the model with option.

*7

At the total output power. The value depends on the combination of output modules or load factor. *

The audible noise might be emitted from the power supply at the pulse load.



Output module specifications

				12	0W suitable	single outp	out			150W isolate	d dual output
ITEM	CODE	J	Α	К	В	L	С	М	D	F	۲
Number of slots used		1	1	1	1	1	1	1	1		1
VOLTAGE [V]		3.3	5	7.5	12	15	24	36	48	V1:24	V2:24
MINIMUM CURRENT [A]		0	0	0	0	0	0	0	0	0	0
CURRENT [A]		15.2	12	12	8.5	8	5	3.4	2.5	3	3
PEAK CURRENT [A]	*3	-	-	-	-	-	-	-	-	-	-
LINE REGULATION [mV] max		20	20	36	48	60	96	120	192	96	96
LOAD REGULATION [mV] max		40	40	100	100	120	150	180	240	150	150
RIPPLE [mVp-p] max	0 to +50℃ *1	150	150	150	150	150	250	250	400	250	250
	-20 to 0°C *1	200	200	200	200	200	300	300	450	300	300
RIPPLE NOISE [mVp-p] max	0 to +50℃ *1	200	200	200	200	200	300	300	450	300	300
	-20 to 0℃ *1	250	250	250	250	250	350	350	500	350	350
TEMPERATURE COEFFICIENT [mV] max	0 to +50℃	50	50	90	120	150	240	300	480	350	350
DRIFT [mV] max	*2	20	20	36	48	60	96	120	192	96	96
OUTPUT VOLTAGE SETTING [-	3.30 to 3.40	5.00 to 5.15	7.50 to 7.80	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92	23.88 to 24.96	23.88 to 24.96
OUTPUT VOLTAGE ADJUSTMEN	IT RANGE [V]	2.64 to 3.96	4.0 to 6.0	6.0 to 9.0	9.6 to 14.4	12.0 to 18.0	19.2 to 28.8	28.8 to 43.2	38.4 to 57.6	5.0 to 25.2	5.0 to 25.2
OVERCURRENT PROTECTION	I [A]	Works over 105% min of rated current. Automatic recovery. Hiccup mode.							Works over 105% min of rated current. Automatic recovery.		
OVERVOLTAGE PROTECTION	[V]	4.2 to 5.6	6.5 to 7.8	9.4 to 11.6	15.0 to 18.6	18.8 to 23.2	30.0 to 37.2	45.0 to 55.8	60.0 to 74.4	30.0 to 37.2	30.0 to 37.2
FUNCTION		Remote ON/OFF (RC), Alarm (LV), DC_OK (LED: Blue)						Remote ON Alarm (LV) DC_OK (L			

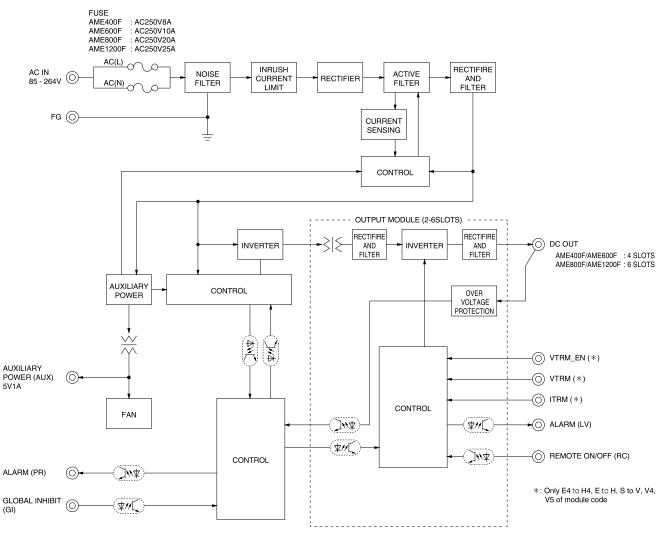
					24	0W suitable	single outp	out			
ITEM	CODE	E4	E	S	F4	F	Т	G4	G	U	H4
Number of slots used		1	1	1	1	1	1	1	1	1	1
VOLTAGE [V]		3.3	5	7.5	7.5	12	15	15	24	36	36
MINIMUM CURRENT [A]		0	0	0	0	0	0	0	0	0	0
CURRENT [A]		32	32	24	20	20	16	10	10	6.7	5
PEAK CURRENT [A]	*3	-	-	-	-	-	-	15	15	10	7.5
LINE REGULATION [mV] max		20	20	36	48	48	60	96	96	120	192
LOAD REGULATION [mV] max	(40	40	100	100	100	120	150	150	180	240
RIPPLE [mVp-p] max	0 to +50℃ *1	150	150	150	150	150	150	250	250	250	400
	-20 to 0°C *1	200	200	200	200	200	200	300	300	300	450
RIPPLE NOISE [mVp-p] max	0 to +50℃ *1	200	200	200	200	200	200	300	300	300	450
	-20 to 0℃ *1	250	250	250	250	250	250	350	350	350	500
TEMPERATURE COEFFICIENT [mV] max	0 to +50℃	50	50	90	120	120	150	240	240	300	480
DRIFT [mV] max	*2	20	20	36	48	48	60	96	96	120	192
OUTPUT VOLTAGE SETTING [V]	3.30 to 3.40	5.00 to 5.15	7.50 to 7.80	7.50 to 7.80	12.00 to 12.48	15.00 to 15.60	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	36.00 to 37.44
OUTPUT VOLTAGE ADJUSTMEN	IT RANGE [V]	3.0 to 6.0	3.0 to 6.0	4.5 to 9.0	7.2 to 14.4	7.2 to 14.4	9.0 to 18.0	14.4 to 28.8	14.4 to 28.8	21.6 to 43.2	28.8 to 57.6
OVERCURRENT PROTECTION	Works over	105%min o	f rated curre	<u>nt or 101%n</u>	nin of peak c	urrent. Autor	natic recove	ry. Hiccup m	ode.		
OVERVOLTAGE PROTECTION	[V]	Vo+1.0 to 1.5	Vo+1.0 to 1.5	Vo+1.0 to 1.7	Vo+1.2 to 2.4	Vo+1.2 to 2.4	Vo+1.5 to 3.0	Vo+2.4 to 4.8	Vo+2.4 to 4.8	Vo+3.6 to 7.2	Vo+4.8 to 7.2
FUNCTION		Remote ON	VOFF (RC),	Alarm (LV),	Remote sen	sing (+S/-S)	, Output volt	age adjustm	ent (VTRM),		
		Constant o	utput current	adjustment	(ITRM), DC	_OK (LED: E	Blue)				

		24	0W suitable	single out	put	
ITEM	CODE	Н	V4	V	V5	
Number of slots used		1	1	1	1	
VOLTAGE [V]	48	65	75	100		
MINIMUM CURRENT [A]		0	0	0	0	
CURRENT [A]		5	3	3	2.25	
PEAK CURRENT [A]	*3	7.5	-	-	-	
LINE REGULATION [mV] max		192	300	300	300	
LOAD REGULATION [mV] may	(240	350	350	350	
RIPPLE [mVp-p] max	0 to +50℃ *1	400	500	500	500	
	-20 to 0℃ *1	450	550	550	550	
RIPPLE NOISE [mVp-p] max	0 to +50℃ *1	450	550	550	550	
	-20 to 0℃ *1	500	600	600	600	
TEMPERATURE COEFFICIENT [mV] max		480	750	750	750	
DRIFT [mV] max	*2	192	300	300	300	
OUTPUT VOLTAGE SETTING [-		65.00 to 67.60			
OUTPUT VOLTAGE ADJUSTMEN	IT RANGE [V]		57.6 to 105.0			
OVERCURRENT PROTECTION	I [A]	Works over 105%min of rated current or 101%min of peak current. Automatic recovery. Hiccup mode.				
OVERVOLTAGE PROTECTION	[V]	Vo+4.8 to 7.2	Vo+7.5 to 11.3	Vo+7.5 to 11.3	Vo+7.5 to 11.3	
FUNCTION		Remote ON/OFF (RC), Alarm (LV), Remote sensing (+S/-S), Output voltage adjustment (VTRM), Constant output current adjustment (ITRM), DC_OK (LED: Blue)				
 *1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKUGIKEN: RM104). *2 Drift is the change in DC output for an eight hours period after a half-hour warm-up at 25°C. *3 The peak current should be under the following conditions. Duration: 5s or less Duty: 35% or less Average current: Rated current or less 						



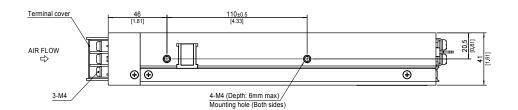
Block diagram

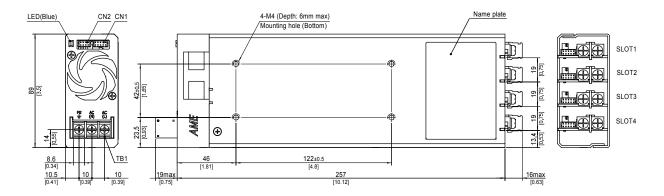






AME400F/AME600F external view





※ Dimensions in mm, [] = inches

% Mounting torque M4 : 1.2N · m max

% Input and output terminal screw tightening torque M4 : 1.6N · m max

% Please connect safety ground to Mounting Hole or FG terminal on the unit.

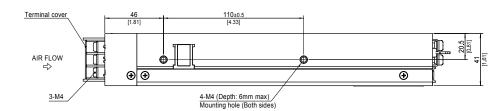
% Tolerance : ±1 [±0.04]

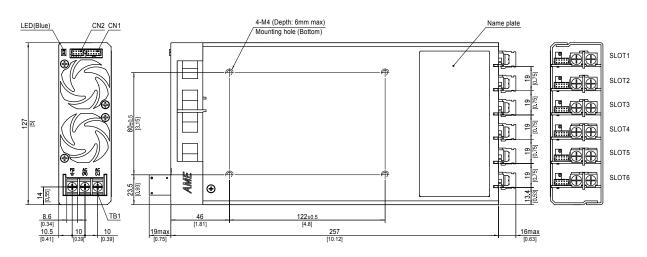
- ※ Weight : 1.2kg max
- * PCB Material/thickness : FR-4 / 1.6mm [0.06]

※ Chassis material : Aluminum

※ Fan cover Material : PBT

AME800F/AME1200F external view





% Tolerance : ±1 [±0.04]

% Weight : 1.8kg max

- % PCB Material/thickness : FR-4 / 1.6mm [0.06]
- ※ Chassis material : Aluminum

※ Fan cover Material : PBT

※ Dimensions in mm,[] = inches

※ Mounting torque M4 : 1.2N·m max

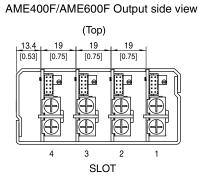
※ Input and output terminal screw tightening torque M4 : 1.6N · m max

※ Please connect safety ground to Mounting Hole or FG terminal on the unit.



Output module

1. Output side view

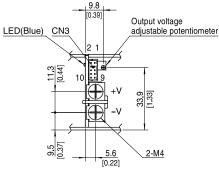


(Top) 19 13.4 19 19 19 19 [0.53] [0.75] [0.75] [0.75] [0.75] [0.75] . 0 θ 0 \oplus \oplus Ð 5 2 6 4 3 1 SLOT

AME800F/AME1200F Output side view

%Tolerance : ±1 [±0.04] %Dimensions in mm, []=inches

2. Output module side view



Module : A-H,J-M,S-V,E4-H4,V4,V5 %Tolerance : ±1[±0.04] %Dimensions in mm, []=inches

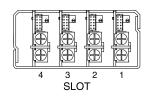
VR1 Output voltage adjustable potentiometer for V1 9.8 VR2 [0.39] Output voltage adjustable potentiometer for V2 V1 LED(Blue) CN3 V2 LED(Blue) +V1 3.5 [0.14] 33.9 1.33] ⊐-V1 1 09] +V2]-V2 Push-in terminal 4.8 3.5 [0.14] 0 6-Connection/release button %Tolerance : ±1[±0.04] %Dimensions in mm, []=inches Module : R



Terminal Blocks and connector pin assign

AME400F/AME600F



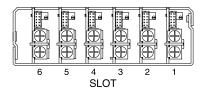


 $\begin{array}{c} (AC (L) \ | \ Input \ Terminals \ 85 - 264 \ VAC \ 1 \ \phi \ 45 - 66 \ Hz \\ (AC (N) \ (M4) \\ (BFrame \ ground \ (M4) \\ (CN1 \ SCN2 \ Connector \ for \ functions \\ (BLED \ (DC_OK) \end{array}$

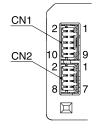
AME800F/AME1200F

AME series





Pin	Configuratio	n and Fu	unctions
 	Configuratio		



Connector pin numbers

Pin configuration and function of CN1

Pin No.		Ground	
T III NO.		Function	level
1	AUX	: Auxiliary power	AUXG
2	AUXG	: Auxiliary power ground	AUXG
3	GI1	: Global inhibit	AUXG
4	AUXG	: Auxiliary power ground	AUXG
5	GI2	: Global inhibit	GIG
6	GIG	: Global inhibit ground	GIG
7	N.C.	: No connection	-
8	N.C.	: No connection	-
9	PR	: PR Alarm	PRG
10	PRG	PRG	

Pin configuration and function of CN2

Pin No.		Function			
1	N.C.	: No connection	-		
2	N.C.	: No connection	-		
3	N.C.	: No connection	-		
4	N.C.	: No connection	-		
5	N.C.	: No connection	-		
6	N.C.	: No connection	-		
7	N.C.	: No connection	-		
8	N.C.	: No connection	-		

* Do not connect anything to N.C. pins.

Matching connectors and terminals

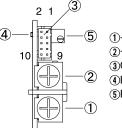
	Connector Housing		Terminal	Mfr.
CN1	S10B-PHDSS	PHDR-10VS	Reel : SPHD-002T-P0.5 Loose :BPHD-001T-P0.5 *1 BPHD-002T-P0.5 *1	J.S.T

*1 The manufacturer can offer only ratchet hand tool.

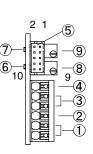


Terminal Blocks

Output module



(1)-Output (M4) 2+Output (M4) ③CN3 (Connector for functions) (LED (DC_OK) (5)Potentiometer to adjust output voltage



1-Output for V2 (2)+Output for V2 3-Output for V1 (4)+Output for V1 (5)CN3 (Connector for function) ⑥LED (DC_OK for V2) ()LED (DC_OK for V1) (8) Potentiometer to adjust output voltage (V2) (9)Potentiometer to adjust output voltage (V1)

Module : A-H,J-M,S-V,E4-H4,V4,V5

Module : R

	Pin configuration and function of CN3									
		Applying module : A-D,J-M		Applyin	g Module : E4-H4,E-H,S-V,	V4,V5	Applying Module : R			
Pin No.		Function	Ground level		Function	Ground level	Function	Ground level		
1	RC	: Remote ON/OFF	RCG	RC	: Remote ON/OFF	RCG	V1_RC : Remote ON/OFF	V1_RCG		
2	RCG	: Remote ON/OFF ground	RCG	RCG	: Remote ON/OFF ground	RCG	V1_RCG : Remote ON/OFF ground	V1_RCG		
3	LV	: LV Alarm	LVG	LV	: LV Alam	LVG	V1_LV : LV Alam	V1_LVG		
4	LVG	: LV Alarm ground	LVG	LVG	: LV Alam ground	LVG	V1_LVG : LV Alam ground	V1_LVG		
5	N.C.	: No connection	_	+S	: + Remote sensing	COM	N.C. : No onnection	_		
6	N.C.	: No connection	_	-S	: - Remote sensing	COM	N.C. : No onnection	_		
7	N.C.	: No connection	_	COM	: Common ground for signal	COM	V2_RC : Remote ON/OFF	V2_RCG		
8	N.C.	: No connection	_	ITRM	: Output current adjustment	COM	V2_RCG : Remote ON/OFF ground	V2_RCG		
9	N.C.	: No connection	_	VTR_EN	: Enable VTRM	COM	V2_LV : LV Alam	V2_LVG		
10	N.C.	: No connection	_	VTRM	: Output voltage adjustment	COM	V2_LVG : LV Alam ground	V2_LVG		

* Do not connect anything to N.C. pins.

Matching connectors and terminals

C	Connector Housing		Terminal	Mfr.
CN3	S10B-PHDSS	PHDR-10VS	Reel: SPHD-002T-P0.5 Loose: BPHD-001T-P0.5 *1 BPHD-002T-P0.5 *1	J.S.T

*1 The manufacturer prepares only the ratchet hand.

Assembling and Installation Method

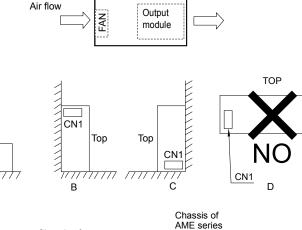
The unit has cooling fans.

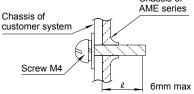
Ensure that the inlet and outlet vents are not blocked.

- If the unit is used in dusty environment, please consider installing the air filter so that cooling efficiency will not get worse. In that case, please pay sufficient attention to airflow.
- Figures to the right are the recommended installation method when the unit is mounted by screws. When the unit is installed by any other method, please take into account of its weight and secure it.
- Avoid the D installation method in the figure to the right because it will cause stress on the mounting holes.
- Maximum length from the outside of the unit of the mounting screws is 6mm so that the isolation to internal components is ensured. (Refer to right figure).

Applicable Wire for module R

Applicable Wire							
Solid wire	Diameter 0.5mm to 1.3mm (AWG.24 to AWG.16)						
Standed wire	0.2mm ² to 1.5mm ² (AWG.24 to AWG.16)						
Sheath strip length	8mm to 9mm						



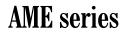




Тор

А

CN1

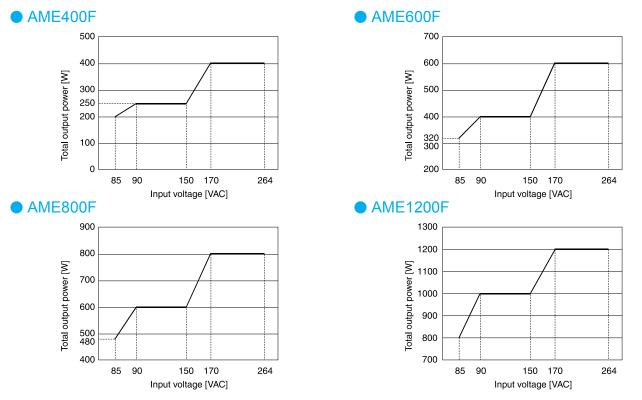




Derating

The AME series is comprised multiple combination output. Both the maximum output of each module and total maximum output have to be within the specs.

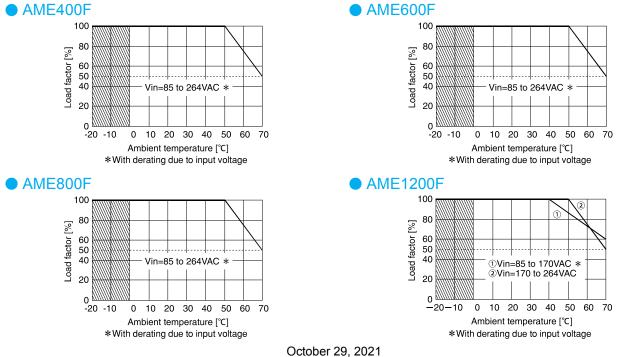
Derating curve for input voltage



Derating curve for ambient temperature

Derating curve for ambient temperature

The derating curve for the ambient temperature (inlet temperature for cooling) is shown in below. The specifications of the ripple and noise in the hatching area below are different.





Definition of load factor Definition of load factor Load [%] = The largest value of A₀, A₁₁ - A₆₂ $\frac{(\text{Sum of each module power})}{(\text{Total output power})} \times 100 = \frac{\sum_{k=1}^{6} (I_{k1} \times V_{k1} + I_{k2} \times V_{k2})}{(\text{Total output power})} \times 100$ A. = $A_{11}, A_{21}, A_{31}, A_{41}, A_{51}, A_{61}$: $AK_1 = I_{K1}/I_{OK1} \times 100$ $A_{12}, A_{22}, A_{32}, A_{42}, A_{52}, A_{62}: AK_2 = I_{K1}/I_{OK2} \times 100$ I_{K1} , V_{K1} , I_{OK1} : output current, voltage, and rated current except for V2 in module R $I_{\kappa_2},\,V_{\kappa_2},\,I_{o\kappa_2}$: output current, voltage, and rated current for V2 in module R Total output power : Dependent upon input voltage Suffix k means the k-th slot \ll If you use the module that apply peak current at the peak current, "I_{k1}" is calculated by peak current. When Calcurating load factor of module, " I_{κ_1} " is calcurated by average current. A method of use peak current, Refer to 4 Peak in Instruction Manual Usage example [Example1] Method to confirm that AM04-RDBA-0000 can be used under the following conditions. Input voltage : 100VAC Ambient temperature : 50°C Output model : slot1 : 5V 12A slot2 : 5V 12A slot3 : 48V 1A slot4 : 24V 2A, 24V 1A According to the "Derating curve for input voltage", total output power is 250W. Clculating A11 - A42 A₀=(5×12+12×5+48×1+24×2+24×1)/250×100=241.2/250×100=96% A₁₁=12/12×100=100% A21=5/8.5×100=59% A₃₁=1/2.5×100=40% A41=2/3×100=67% A42=1/3×100=34% Accordingly, because the "Derating curve for ambient temperature" indicates that up to 100% of the maximum load can be used up to 50°C and the largest value amongst A₀, A₁₁, A₂₁, A₃₁, A₄₁, and A₄₂ is 100%, this assures that these input and output conditions are acceptable. [Example 2] Method to confirm that AM12-RHGFFE-0000 can be used under the following conditions. Input voltage : 200VAC Ambient temperature : 50°C Output model : slot1 : 5V 32A slot2 : 12V 16A slot3 : 12V 10A slot4 : 24V 8A (peak 15A) slot6 : 24V 2.5A, 24V 2.5A

slot5 : 48V 4A

According to the "Derating curve for input voltage", total output power is 1200W. Clculating A₁₁ - A₆₂

A₀=(5×32+12×16+12×10+24×15+48×4+24×2.5+24×2.5)/1200×100=1144/1200×100=96% A₁₁=32/32×100=100% A21=16/20×100=80% A₃₁=10/20×100=50% A41=8/10×100=80% A₅₁=4/5×100=80% A₆₁=2.5/3×100=84% A₆₂=2.5/3×100=84%

Accordingly, because the "Derating curve for ambient temperature" indicates that up to 100% of the maximum load can be used up to 50°C and the largest value A₀, A₁₁, A₂₁, A₃₁, A₄₁, A₅₁, A₆₁ and A₆₂ is 96%, this assures that these input and output conditions are acceptable.



◆ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Basic Characteristics Data

Madal	Circuit method	Switching	Inrush current	PC	B/Pattern	ľ	Series/Parallel operation availability	
Model	Circuit method	frequency [kHz]	protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
Input module of	Active filter	67	Delev	FR-4		Multilovor	N/A	N/A
AME400F	Half-bridge converter	133	Relay		-	Multilayer	IN/A	IN/A
Input module of AME600F	Active filter	67	Delay			Multilayer	N/A	
	Half-bridge converter	133	Relay	FR-4	-			N/A
Input module of AME800F	Active filter	67	Delev	FR-4	_	Multilayer	N/A	N/A
	Half-bridge converter	133	Relay		-	Mulliayer		IN/A
Input module of	Active filter	67	Delay	FR-4		Multilayer	N/A	N/A
AME1200F	Half-bridge converter	133	Relay		-	Mulliayer	IN/A	IN/A
Output module of A-D, J-M	Buck converter	266	-	FR-4	-	Multilayer	*1	N/A
Output module of E4-H4, E-H, S-V, V4, V5	Buck converter	266	-	FR-4	-	Multilayer	*1	*1
Output module of R	Buck converter	266	-	FR-4	-	Multilayer	* 2	N/A

*1 Refer to "Series/Parallel Operation of Modular Power Supply" in the instruction manual.
 *2 Series operation is possible, but series connection cannot be set by the series code.

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