

Temperature increase of main components 主要部品温度上昇

Output modules for AME series
Module: E4, E, S, F4, F, T, G4, G, U, H4, H, V4, V, V5

1. Conditions

- (1) Input : AC 85~264V
- (2) Output : Rated Output
- (3) Mounting method : As shown in Fig.1.1, Fig.1.2

2. Result

Fig.1.1 Temperature increase of Module E4, E, S, F4, F, T, G4, G

No.	Parts name	Symbol No.	Increase (ΔT)[deg]					Rated temp. [°C]	Reference
			E4, E 3.3V, 5V	S 7.5V	F4, F 7.5V, 12V	T 15V	G4, G 15V, 24V		
1	Transformer	T501	72	68	79	70	76	130	
2	Rectifying transistor(Input)	TR501	68	68	69	70	63	150	Junction Temp.
3	Switching transistor	TR601	71	68	71	69	71	150	Junction Temp.
4	Output choke	L601	46	55	44	41	40	130	
5	Rectifying transistor(Output)	TR611	63	66	64	62	62	150	Junction Temp.
6	Output capacitor	C621	37	40	36	37	34	125	
7	Output capacitor	C622	47	38	37	36	33	125	

Fig.1.2 Temperature increase of Module U, H4, H, V4, V, V5

No.	Parts name	Symbol No.	Increase (ΔT)[deg]				Rated temp. [°C]	Reference
			U 36V	H4, H 36V, 48V	V4, V 65V, 75V	V5 100V		
1	Transformer	T501	73	80	58	60	130	
2	Rectifying diode(Input)	D501	83	79	66	53	150	Junction Temp.
3	Switching transistor	TR601	71	73	72	71	150	Junction Temp.
4	Output choke	L601	52	42	52	46	130	
5	Rectifying diode(Output)	D612	78	71	64	55	150	Junction Temp.
6	Output capacitor	C621	39	36	-	-	125	

※ The results depend on the combination of output modules.

The above is the data in the worst case.



(Side view)

Fig.1.1 Mounting method
(Normal position)