Date : Sep.1,2014

Temperature increase of main components

Model: CQHS2504832,CQHS2504850

1. Conditions

(1) Input : DC 48 [V]
(2) Output : Rated output
(3) Air flow : 2.0[m/s]
(4) Measuring method : Shown as Fig1.1

2. Result

Table 1.1 Temperature increase of main components

No.	Parts name	Symbol No.	Increase (△T) [deg]				Rated temp. [℃]	Reference
			32V	50V				
1	Switching MOS-FET	TR101	120	120			150	Junction Temp.
2	Switching MOS-FET	TR102	120	112			150	Junction Temp.
3	Transformer	T101	119	113			130	
4	Rectifying MOS-FET	TR521	110	103			150	Junction Temp.
5	Rectifying MOS-FET	TR522	117	100			150	Junction Temp.
6	Power control IC	IC201	66	67			150	Junction Temp.
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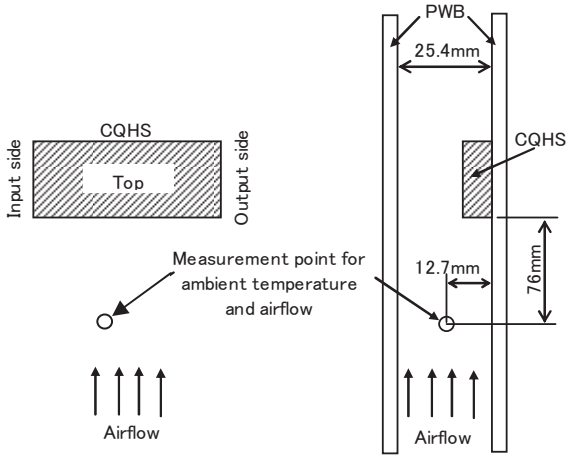

Fig1.1 Measuring method

Date : Dec.24,2014

Temperature increase of main components

Model: CQHS2504832-B,CQHS2504850-B

1. Conditions

(1) Input :DC 36 - 76 [V]
(2) Output :Rated output
(3) Aluminum base plate temp. :75[℃] CQHS2504832-B (Fig1.1)
:80[℃] CQHS2504850-B (Fig1.1)
(4) Ambient temp. :25[℃]

2. Result

The temperature Increase based on the aluminum base plate is shown below.

Table 1.1 Temperature increase of main components

No.	Parts name	Symbol No.	Increase (△T) [deg]				Rated temp. [℃]	Reference
			32V	50V				
1	Switching MOS-FET	TR101	19	13			150	Junction Temp.
2	Transformer	T101	47	44			130	
3	Rectifying MOS-FET	TR511	36	32			150	Junction Temp.
4	Rectifying MOS-FET	TR512	14	8			150	Junction Temp.
5	Rectifying MOS-FET	TR521	46	40			150	Junction Temp.
6	Rectifying MOS-FET	TR522	21	15			150	Junction Temp.
7	Output choke(coil)	L501	41	31			130	
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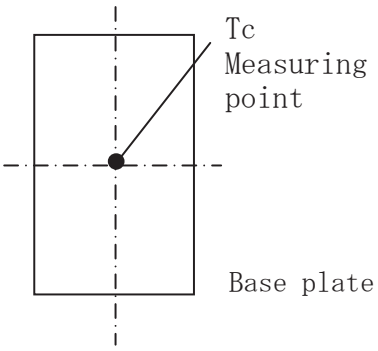

Fig.1.1 Measuring point of aluminum base plate temperature.