

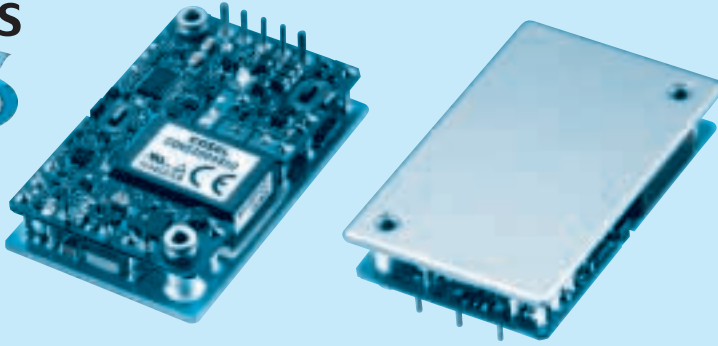
CQHS300

CQH S 300 48 50 -□

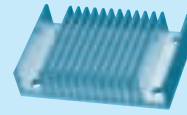
① ② ③ ④ ⑤ ⑥



RoHS



* Providing heat sink as option



- ① Series name
 ② Single output
 ③ Output wattage
 ④ Input voltage
 48:DC36 - 76V
 ⑤ Output voltage
 ⑥ Optional
 R :with Remote ON/OFF
 Positive logic control
 T :with Mounting hole
 ϕ 3.4 thru

MODEL	CQHS3004832	CQHS3004850
MAX OUTPUT WATTAGE[W]	300.8	300
DC OUTPUT	32V 9.4A	50V 6A

SPECIFICATIONS

	MODEL	CQHS3004832	CQHS3004850	
INPUT	VOLTAGE[V]	DC36 - 76		
	CURRENT[A]	*1 6.67typ	6.65typ	
	EFFICIENCY[%]	*1 94typ	94typ	
	START-UP VOLTAGE[V]	DC32 - 36		
	HYSTERESIS VOLTAGE[V]	DC2 min		
OUTPUT	VOLTAGE[V]	32	50	
	CURRENT[A]	9.4	6.0	
	LINE REGULATION[mV]	64max	100max	
	LOAD REGULATION[mV]	64max	100max	
	RIPPLE[mVp-p]	-20 to +100℃ *2	255max	400max
		-40 to -20℃ *2 Vin=36-60V	320max	500max
		-40 to -20℃ *2 Vin=60-76V	400max	500max
		-20 to +100℃ *2	320max	500max
	RIPPLE NOISE[mVp-p]	-40 to -20℃ *2	410max	650max
		0 to +65℃	320max	500max
	TEMPERATURE REGULATION[mV]	-40 to +100℃	640max	1000max
		DRIFT[mV]	*3 120max	185max
	START-UP TIME[ms]	200max (DCIN 48V, Io=100%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor		
	27.2 - 35.2	45.0 - 55.0		
OUTPUT VOLTAGE SETTING[V]	*1 31.68 - 32.32	49.50 - 50.50		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating, low voltage protection (shut down) function is built-in.		
	OVERVOLTAGE PROTECTION[V]	36.80 - 44.80	56.50 - 67.50	
	REMOTE SENSING	Provided		
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)		
ISOLATION	INPUT-OUTPUT	DC1,500V or AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min(20±15℃)		
	INPUT-BASE PLATE	DC1,500V or AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min(20±15℃)		
	OUTPUT-BASE PLATE	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing)(Refer to DERATING CURVE), 3,000m (10,000 feet) max		
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max		
	VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT	196.1m/s² (20G), 11ms, once each along X, Y and Z axis		
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1		
OTHERS	CASE SIZE/WEIGHT	57.9×12.7×36.8mm [2.28×0.5×1.45 inches] (W×H×D) / 75g max		
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)		

*1 At rated input(DC48V), rated load, and aluminum base plate temperature 25°C.

*2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1 μ F.

*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*4 When the input voltage is in the range of DC36-40V, output voltage is limited. Refer to the manual.

External view

