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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

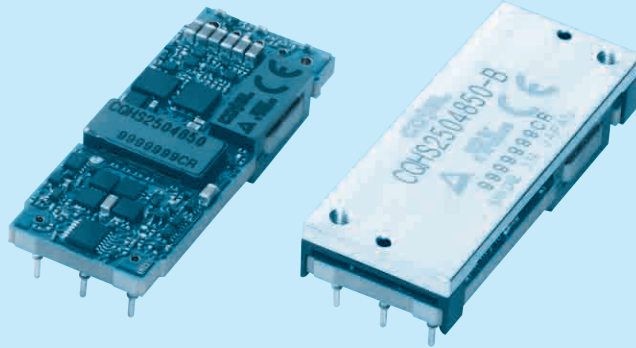
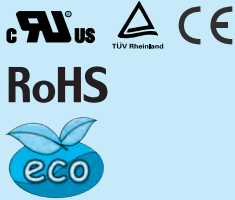
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



CQHS250

CQH S 250 48 50 -□

① ② ③ ④ ⑤ ⑥



- 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
N :Auto restart in protection
circuit working
B :Base plate option with
Mounting hole M3
L2:Pin length 5.3mm

MODEL	CQHS2504832	CQHS2504850
MAX OUTPUT WATTAGE[W]	252.8	250
DC OUTPUT	32V 7.9A	50V 5.0A

SPECIFICATIONS

	MODEL	CQHS2504832	CQHS2504850
INPUT	VOLTAGE[V]	DC36 - 76	
	CURRENT[A]	5.60typ	5.54typ
	EFFICIENCY[%]	94typ	94typ
	START-UP VOLTAGE[V]	DC32 - 36	
	HYSTERESIS VOLTAGE[V]	DC2 min	
OUTPUT	VOLTAGE[V]	32	50
	CURRENT[A]	7.9	5.0
	LINE REGULATION[mV]	64max	100max
	LOAD REGULATION[mV]	64max	100max
	RIPPLE[mVp-p]	-20 to +85°C Vin=36-60V *2	255max
		-20 to +85°C Vin=60-76V *2	320max
		-40 to -20°C *2	320max
	RIPPLE NOISE[mVp-p]	-20 to +85°C *2	320max
		-40 to -20°C *2	410max
	TEMPERATURE REGULATION[mV]	-40 to +85°C	640max
	DRIFT[mV]	120max	185max
	START-UP TIME[ms]	200max (DCIN 48V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor	
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 50MΩ min (20±15°C)	
	INPUT-BASE PLATE	*5	DC1,500V or AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)
	OUTPUT-BASE PLATE	*5	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max	
	VIBRATION	10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT	196.1m/s ² (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	57.9×10.5×22.76mm [2.28×0.41×0.9 inches] (W×H×D) / 30g max	
	COOLING METHOD	Convection / Forced air / Conduction	

*1 At rated input(DC48V), rated load. Ta= 25°C, 2m/s.

*2 Ripple and ripple noise is measured by using measuring board. Refer to the manual.

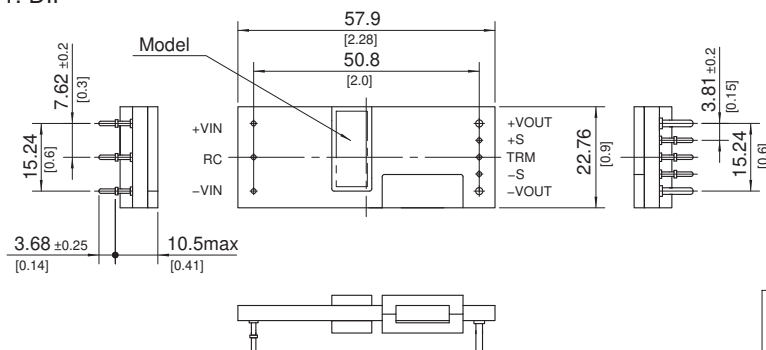
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

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

*5 Base Plate Option.

External view

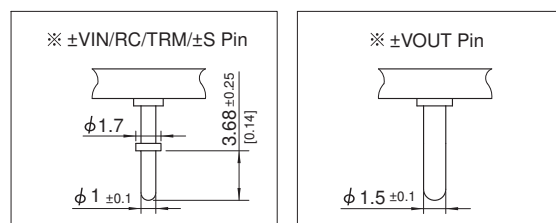
1. DIP



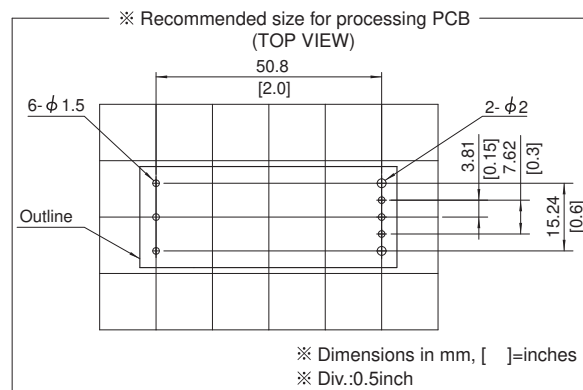
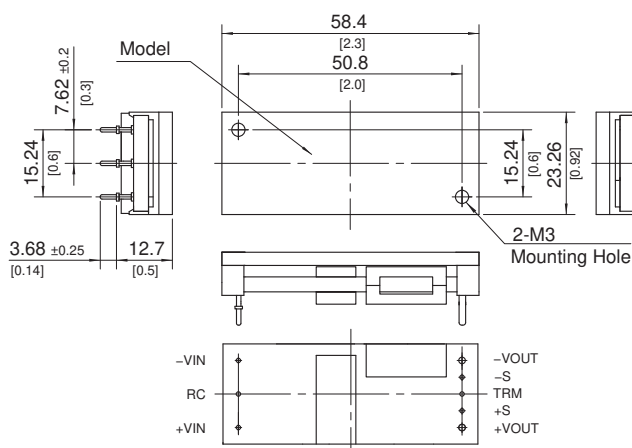
※ Tolerance : ± 0.5 [± 0.02]

※ Weight : 30g max(DIP)
45g max(Base Plate)

※ Dimensions in mm, []=inches



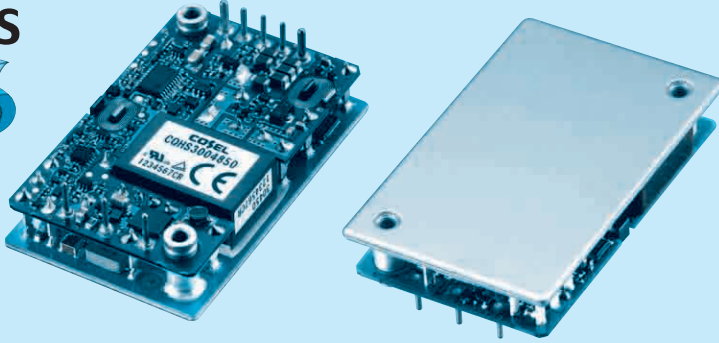
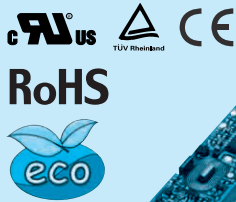
2. Base Plate (option B)



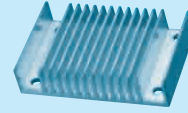
CQHS300

CQH S 300 48 50 -□

① ② ③ ④ ⑤ ⑥



*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°C *2 255max	400max
		-40 to -20°C *2 Vin=36-60V 320max	500max
		-40 to -20°C *2 Vin=60-76V 400max	500max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *2 320max	500max
		-40 to -20°C *2 410max	650max
	TEMPERATURE REGULATION[mV]	0 to +65°C 320max	500max
		-40 to +100°C 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	
	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 50MΩ min (20±15°C)	
	INPUT-BASE PLATE	DC1,500V or AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)	
	OUTPUT-BASE PLATE	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100°C (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°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max	
	VIBRATION	10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT	196.1m/s ² (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)	

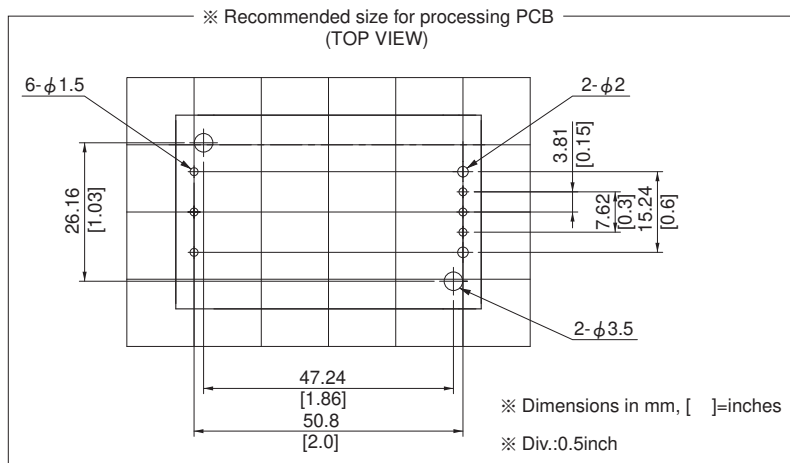
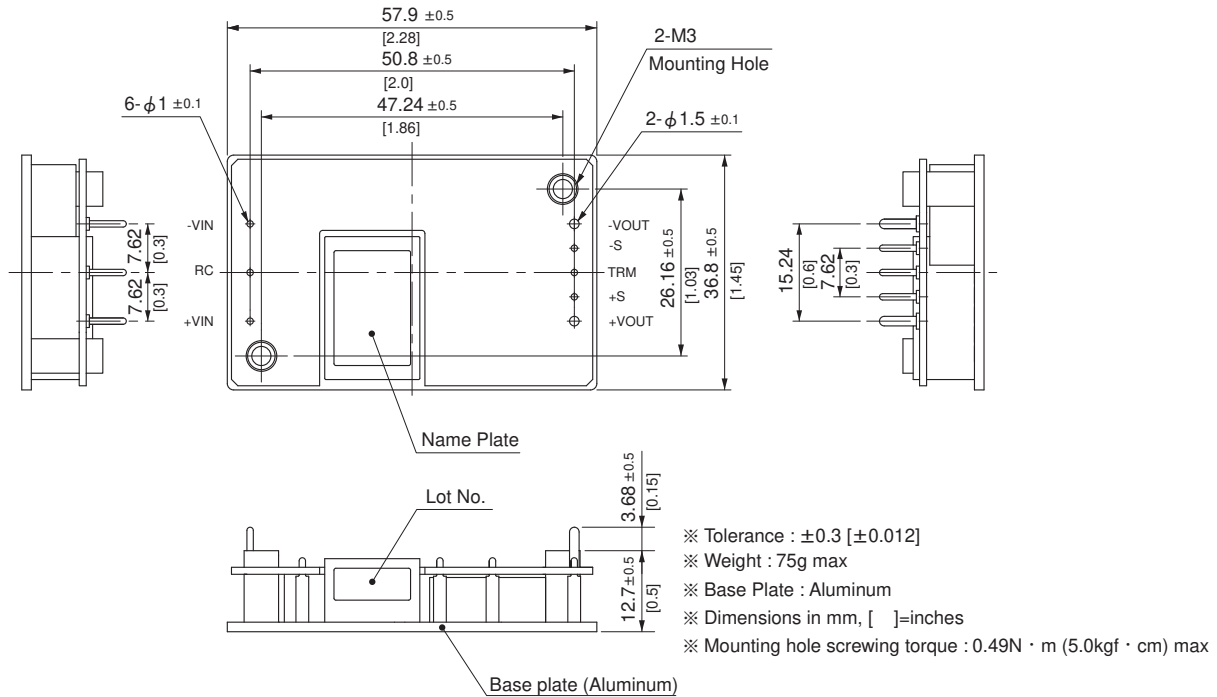
*1 At rated input(DC48V), rated load, and aluminum base plate temperature 25°C.

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

*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.

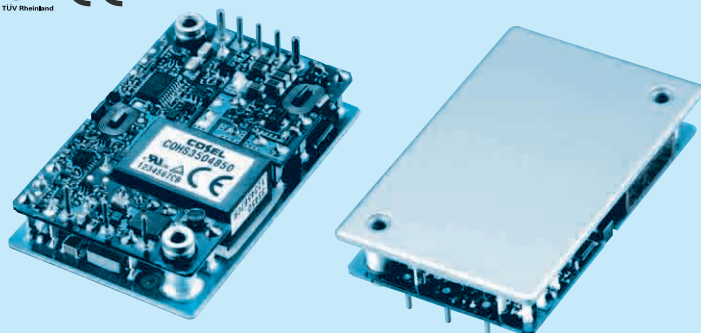
External view



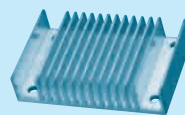
CQHS350

CQH S 350 48 50 -□

① ② ③ ④ ⑤ ⑥



*Providing heat sink as option



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
48:DC36 - 65V
- ⑤ Output voltage
- ⑥ Optional
- R :with Remote ON/OFF
Positive logic control
- T :with Mounting hole
φ 3.4 thru

MODEL	CQHS3504832	CQHS3504850
MAX OUTPUT WATTAGE[W]	352	350
DC OUTPUT	32V 11A	50V 7A

SPECIFICATIONS

	MODEL	CQHS3504832	CQHS3504850
INPUT	VOLTAGE[V]	DC36 - 65	
	CURRENT[A]	*1 7.8typ	7.76typ
	EFFICIENCY[%]	*1 94typ	94typ
	START-UP VOLTAGE[V]	DC32 - 36	
	HYSTERESIS VOLTAGE[V]	DC2 min	
OUTPUT	VOLTAGE[V]	32	50
	CURRENT[A]	11.0 *5	7.0
	LINE REGULATION[mV]	64max	100max
	LOAD REGULATION[mV]	64max	100max
	RIPPLE[mVp-p]	-20 to +100°C *2	255max
		-40 to -20°C Vin=36-60V *2	320max
		-40 to -20°C Vin=60-65V *2	400max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *2	320max
		-40 to -20°C *2	410max
	TEMPERATURE REGULATION[mV]	0 to +65°C	320max
		-40 to +100°C	640max
	DRIFT[mV]	*3 120max	185max
	START-UP TIME[ms]	200max (DCIN 48V, Io=100%)	
PROTECTION CIRCUIT AND OTHERS	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor 26.88 - 35.20	
	OUTPUT VOLTAGE SETTING[V]*1	31.68 - 32.32	49.50 - 50.50
	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	
ISOLATION	REMOTE ON/OFF	Provided (Negative Logic L : ON, H :OFF)	
	INPUT-OUTPUT	DC1,500V or AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)	
	INPUT-BASE PLATE	DC1,500V or AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)	
ENVIRONMENT	OUTPUT-BASE PLATE	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)	
	OPERATING TEMP.,HUMID.AND ALTITUDE	-40 to +100°C (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°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max	
	VIBRATION	10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis	
SAFETY	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis	
	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 μF.

*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.

*5 Rated current is increased adjusting output voltage to lower than rated output voltage. Refer to the manual.

External view

