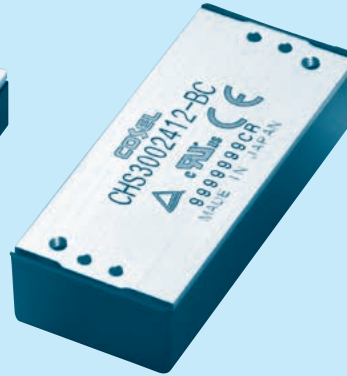
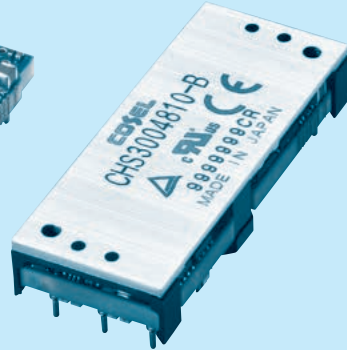
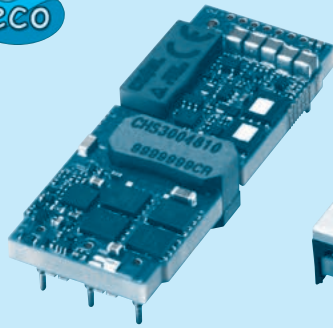


CHS300

CH S 300 48 10 - □

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output power
- ④ Input voltage
24:DC18 - 36V
48:DC36 - 76V
- ⑤ Output voltage
05:5V
10:10V
12:12V
12H:12V (High efficiency type)
15:15V
24:24V
28:28V
32:32V
48:48V
- ⑥ Optional
R :with Remote ON/OFF
Positive logic control
U :Shut down in protection
circuit working
B :Baseplate option with
mounting hole M3
BC:Baseplate and case option
with mounting hole M3
(only CHS30024)
L2:Pin length 5.3mm
L5:5pins option
(+S,-S,TRM less)
I :with the PMBus interface
(only CHS3004810/4812)

MODEL	CHS3002405	CHS3002412	CHS3002415	CHS3002424	CHS3002428	CHS3002432	CHS3002448
MAX OUTPUT WATTAGE[W]	200.0	200.4	202.5	252.0	252.0	252.8	254.4
DC OUTPUT	5V 40A	12V 16.7A	15V 13.5A	24V 10.5A	28V 9A	32V 7.9A	48V 5.3A

SPECIFICATIONS

MODEL	CHS3002405	CHS3002412	CHS3002415	CHS3002424	CHS3002428	CHS3002432	CHS3002448		
INPUT	VOLTAGE[V]	DC18 - 36							
	CURRENT[A]	*1 8.91typ	9.08typ	9.02typ	11.17typ	11.17typ	11.21typ	11.34typ	
	EFFICIENCY[%]	*1 93.5typ	92.0typ	93.5typ	94.0typ	94.0typ	94.0typ	93.5typ	
OUTPUT	VOLTAGE[V]	5	12	15	24	28	32	48	
	CURRENT[A]	40	16.7	13.5	10.5	9	7.9	5.3	
	LINE REGULATION[mV]	10max	24max	30max	48max	56max	64max	96max	
	LOAD REGULATION[mV]	10max	24max	30max	48max	56max	64max	96max	
	RIPPLE	[mVrms]	*2 40max	50max	100max	90max	90max	90max	110max
		[mVp-p]	*2 120max	150max	280max	250max	250max	250max	300max
	RIPPLE NOISE[mVp-p]	*2 150max	180max	300max	280max	280max	280max	350max	
	TEMPERATURE REGULATION[mV]	120max	240max	300max	480max	560max	640max	960max	
	DRIFT[mV]	*3 20max	40max	50max	80max	90max	120max	180max	
	START-UP TIME[ms]	50max (DCIN 24V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE	*4 Fixed (TRM pin open), adjustable by external resistor -20% / +20% -20% / +10% -20% / +5% -10% / +10% -10% / +10% -10% / +10% -10% / +10%							
OUTPUT VOLTAGE SETTING	*1 ±1.6%								
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (Auto restart)							
	OVERVOLTAGE PROTECTION	125% - 145% (Auto restart)	115% - 135% (Auto restart)	110% - 130% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	
	REMOTE SENSING	Provided							
	REMOTE ON/OFF	Provided (Negative Logic L : ON, H :OFF)							

MODEL	CHS3004810	CHS3004812	CHS3004812H	CHS3004815	CHS3004824	CHS3004828	CHS3004832	CHS3004848
MAX OUTPUT WATTAGE[W]	300.0	300.0	300.0	300.0	300.0	302.8	300.8	302.4
DC OUTPUT	10V 30A	12V 25A	12V 25A	15V 20A	24V 12.5A	28V 10.8A	32V 9.4A	48V 6.3A

SPECIFICATIONS

MODEL	CHS3004810	CHS3004812	CHS3004812H	CHS3004815	CHS3004824	CHS3004828	CHS3004832	CHS3004848		
INPUT	VOLTAGE[V]	DC36 - 76								
	CURRENT[A]	*1 6.61typ	6.61typ	6.55typ	6.61typ	6.61typ	6.67typ	6.63typ	6.70typ	
	EFFICIENCY[%]	*1 94.5typ	94.5typ	95.5typ	94.5typ	94.5typ	94.5typ	94.5typ	94.0typ	
OUTPUT	VOLTAGE[V]	10	12	12	15	24	28	32	48	
	CURRENT[A]	30	25	25	20	12.5	10.8	9.4	6.3	
	LINE REGULATION[mV]	*6 20max	24max	24max	30max	48max	56max	64max	96max	
	LOAD REGULATION[mV]	*6 20max	24max	24max	30max	48max	56max	64max	96max	
	RIPPLE	[mVrms]	*2 40max	50max	50max	70max	90max	90max	90max	130max
		[mVp-p]	*2 120max	150max	150max	180max	250max	250max	250max	350max
	RIPPLE NOISE[mVp-p]	*2 150max	180max	180max	200max	280max	280max	280max	380max	
	TEMPERATURE REGULATION[mV]	200max	240max	240max	300max	480max	560max	640max	960max	
	DRIFT[mV]	*3 30max	40max	40max	50max	80max	90max	120max	180max	
	START-UP TIME[ms]	50max (DCIN 48V, Io=100%)								
	OUTPUT VOLTAGE ADJUSTMENT RANGE	*4 Fixed (TRM pin open), adjustable by external resistor -10% / +10% -10% / +10% -10% / +10% -10% / +10% -10% / +10% -10% / +10% -10% / +10% -20% / +15%								
OUTPUT VOLTAGE SETTING	*1 ±1.6%									
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (Auto restart)								
	OVERVOLTAGE PROTECTION	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	115% - 135% (Auto restart)	120% - 140% (Auto restart)	
	REMOTE SENSING	Provided								
	REMOTE ON/OFF	Provided (Negative Logic L : ON, H :OFF)								

GENERAL SPECIFICATIONS

ISOLATION	INPUT-OUTPUT	DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)
	INPUT-BASEPLATE *5,*7	DC2,250V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)
	OUTPUT-BASEPLATE *5,*7	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), 5,000m (16,000 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	58.4 × 11.0 × 22.86mm [2.3 × 0.43 × 0.9 inches] (W × H × D) / 38g max
		58.9 × 12.7 × 23.26mm [2.32 × 0.5 × 0.92 inches] (W × H × D) / 50g max *5
		61.1 × 14.3 × 26.1 [2.41 × 0.56 × 1.03inches] (W × H × D) / 57g max *7
	COOLING METHOD	Convection / Forced air / Conduction

*1 At rated input (DC24V, DC48V) and rated load. Ta=25°C, 2m/s.

*2 Ripple and ripple noise is measured by using measuring board with ceramic capacitor 0.1 μF or 22 μF. (Refer to instruction manual for wiring output pin)

*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 Refer to the instruction manual for input voltage derating.

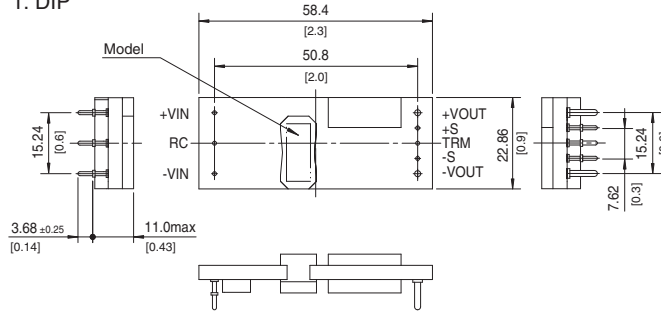
*5 BasePlate Option.

*6 At input voltage DC36 - 76V (CHS3004810, CHS3004812), DC40 - 76V (CHS3004812H).

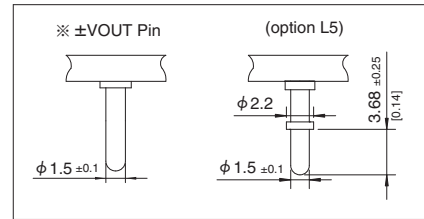
*7 Baseplate and case option.

External view

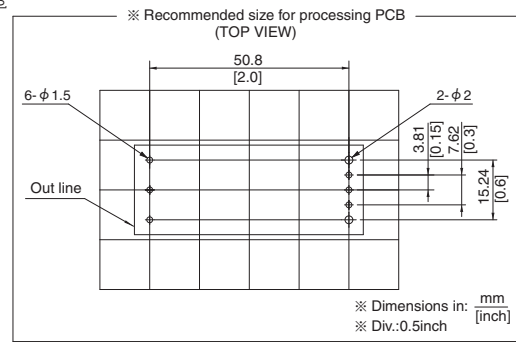
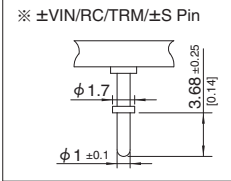
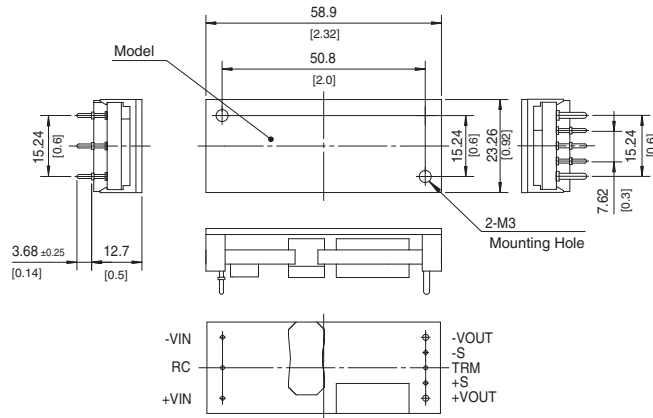
1. DIP



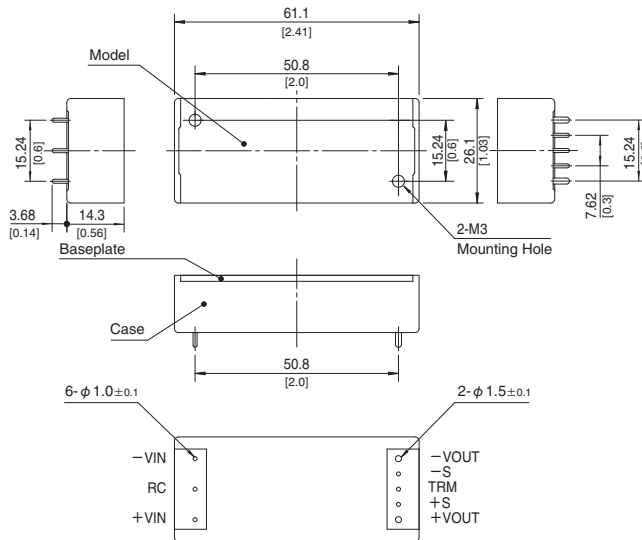
※ Tolerance: ±0.5 [±0.02]
 ※ Dimensions in mm, []=inches



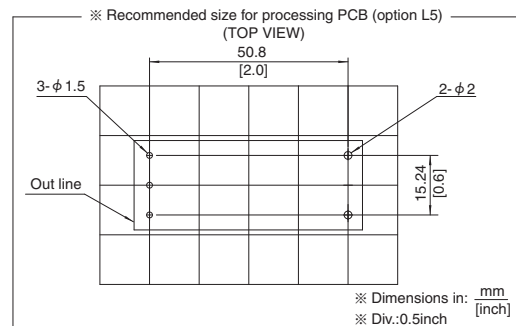
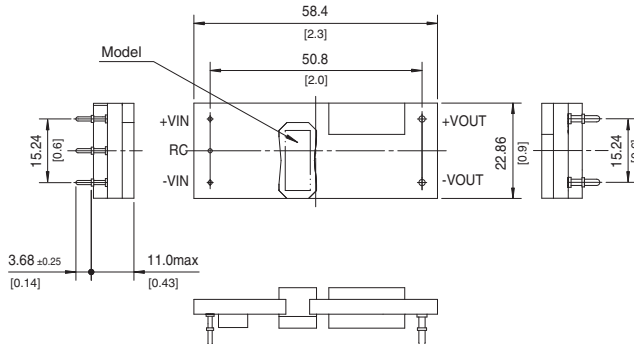
2. BasePlate (option B)



3. Baseplate and case (option BC)



4. 5pins type (option L5)



* Please contact us about external view of the PMBus interface (option I).