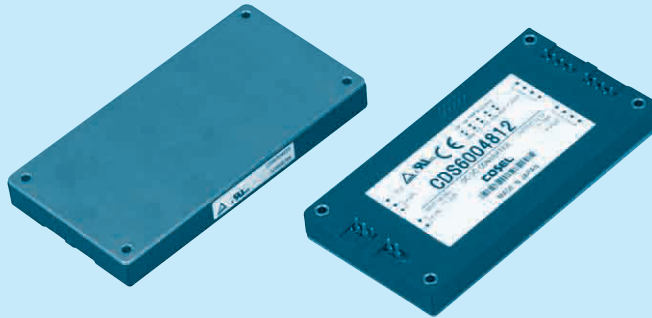


CDS500/600

CD
S
600
48
12



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
24:DC18 - 36V
48:DC36 - 76V
- ⑤ Output voltage
- ⑥ H:HighEfficiency
(24VIN Model only)
- ⑦ Optional
M:with Mounting hole
M3 tapped

MODEL	CDS5002428H	CDS6002412	CDS6002412H	CDS6002428	CDS6002428H	CDS6004812	CDS6004828
MAX OUTPUT WATTAGE[W]	504	600	600	616	616	700	700
DC OUTPUT	28V 18A	12.5V 48A	12.5V 48A	28V 22A	28V 22A	12.5V 56A	28V 25A

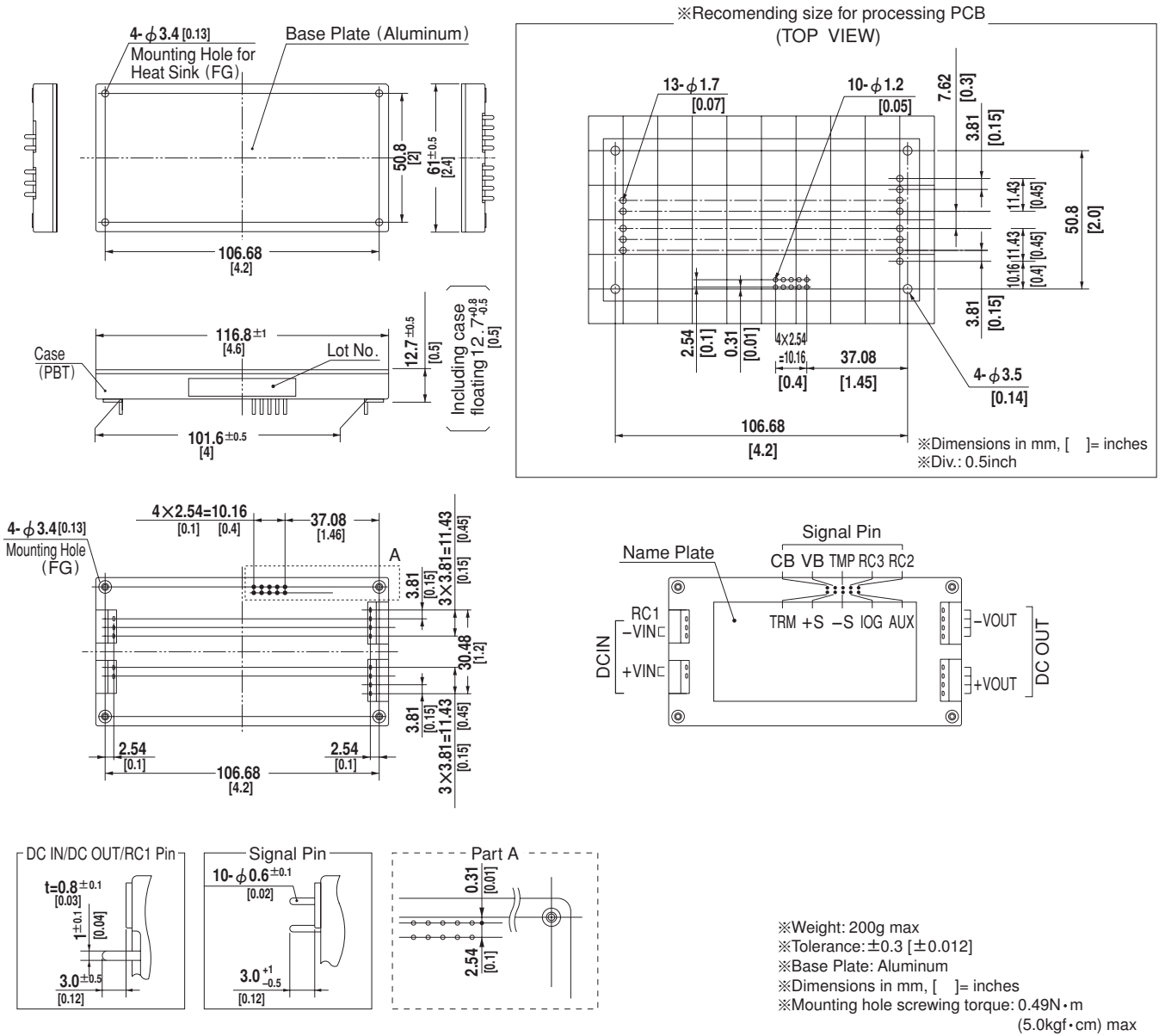
SPECIFICATIONS

	MODEL	CDS5002428H	CDS6002412	CDS6002412H	CDS6002428	CDS6002428H	CDS6004812	CDS6004828	
INPUT	VOLTAGE[V]	DC18 - 36		DC20.5 - 36	DC18 - 36		DC19 - 36	DC36 - 76	
	CURRENT[A]	24typ		30typ	29typ	30typ	29typ	17typ	
	EFFICIENCY[%]	lo=100% lo=50%	89typ(DCIN 24V) 90typ(DCIN 24V)	83typ(DCIN 24V) 87typ(DCIN 24V)	87typ(DCIN 24V) 90typ(DCIN 24V)	86typ(DCIN 24V) 87typ(DCIN 24V)	89typ(DCIN 24V) 90typ(DCIN 24V)	89typ(DCIN 48V) 91typ(DCIN 48V)	89typ(DCIN 48V) 90typ(DCIN 48V)
OUTPUT	VOLTAGE[V]	28		12.5	12.5	28	28	12.5	
	CURRENT[A]	18		48	48	22	22	56	
	LINE REGULATION[mV]	95max		40max	40max	95max	95max	40max	
	LOAD REGULATION[mV]	190max		100max	100max	190max	190max	100max	
	RIPPLE[mVp-p]	0 to +85°C *2 -20 - 0°C *2	120max 160max	120max 160max	120max 160max	120max 160max	120max 160max	120max 160max	120max 160max
	RIPPLE NOISE[mVp-p]	0 to +85°C *2 -20 - 0°C *2	150max 180max	150max 180max	150max 180max	150max 180max	150max 180max	150max 180max	150max 180max
	TEMPERATURE REGULATION[mV]	0 to +65°C -20 to +85°C	280max 480max	120max 200max	120max 200max	280max 480max	280max 480max	120max 200max	280max 480max
	DRIFT[mV]	90max		40max	40max	90max	90max	40max	90max
	START-UP TIME[ms]	200max (DCIN 24V, lo=100%)						200max (DCIN 48V, lo=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), 80 - 110% adjustable by external VR or external voltage							
OUTPUT VOLTAGE SETTING[V]	27.72 - 28.28 *6	12.00 - 13.00	12.00 - 13.00	12.00 - 13.00	26.88 - 29.12	26.88 - 29.12	12.00 - 13.00	26.88 - 29.12	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION[V]	33.00 - 39.20	14.35 - 17.50		33.00 - 39.20		14.35 - 17.50	33.00 - 39.20	
	REMOTE SENSING	Provided							
	REMOTE ON/OFF	Provided (On both side of input and output)							
ISOLATION	INPUT-OUTPUT	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)							
	INPUT-FG	AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)							
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)							
	OUTPUT-RC2,RC3	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (20±15°C)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE *7	-20 to +85°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) 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 X, Y and Z axis							
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1							
OTHERS	CASE SIZE/WEIGHT	61 × 12.7 × 116.8mm [2.4 × 0.5 × 4.6 inches] (W × H × D) / 200g max							
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)							

*1 At rated input(DC24,DC48V) and rated load.
 *2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1 μF.
 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN:RM101).
 *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 CDS5002428H,CDS6002428H,CDS6004828:Output voltage adjustment range is 80 - 114.3%.
 *5 CDS5002428H,CDS6002412H,CDS6002428H:When the output voltage adjustment range is 101% or more,the input voltage range is limited(Refer to Instruction Manual).
 *6 Aluminum baseplate temperature Tc=25°C
 *7 Please consult us in regard to use from -40°C.

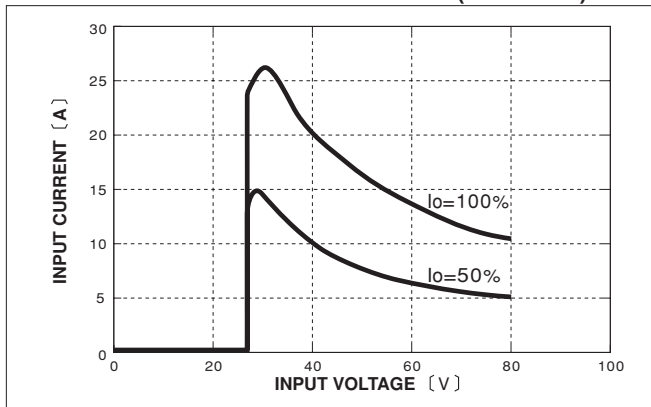
External view



CDS

Performance data

INPUT CURRENT CHARACTERISTICS (CDS60048)



EFFICIENCY CHARACTERISTICS (CDS60048)

