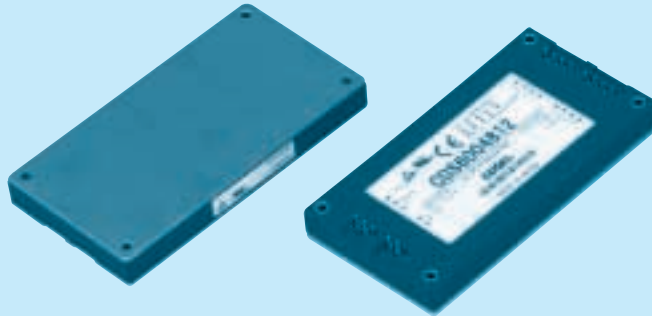


# CDS500/600

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

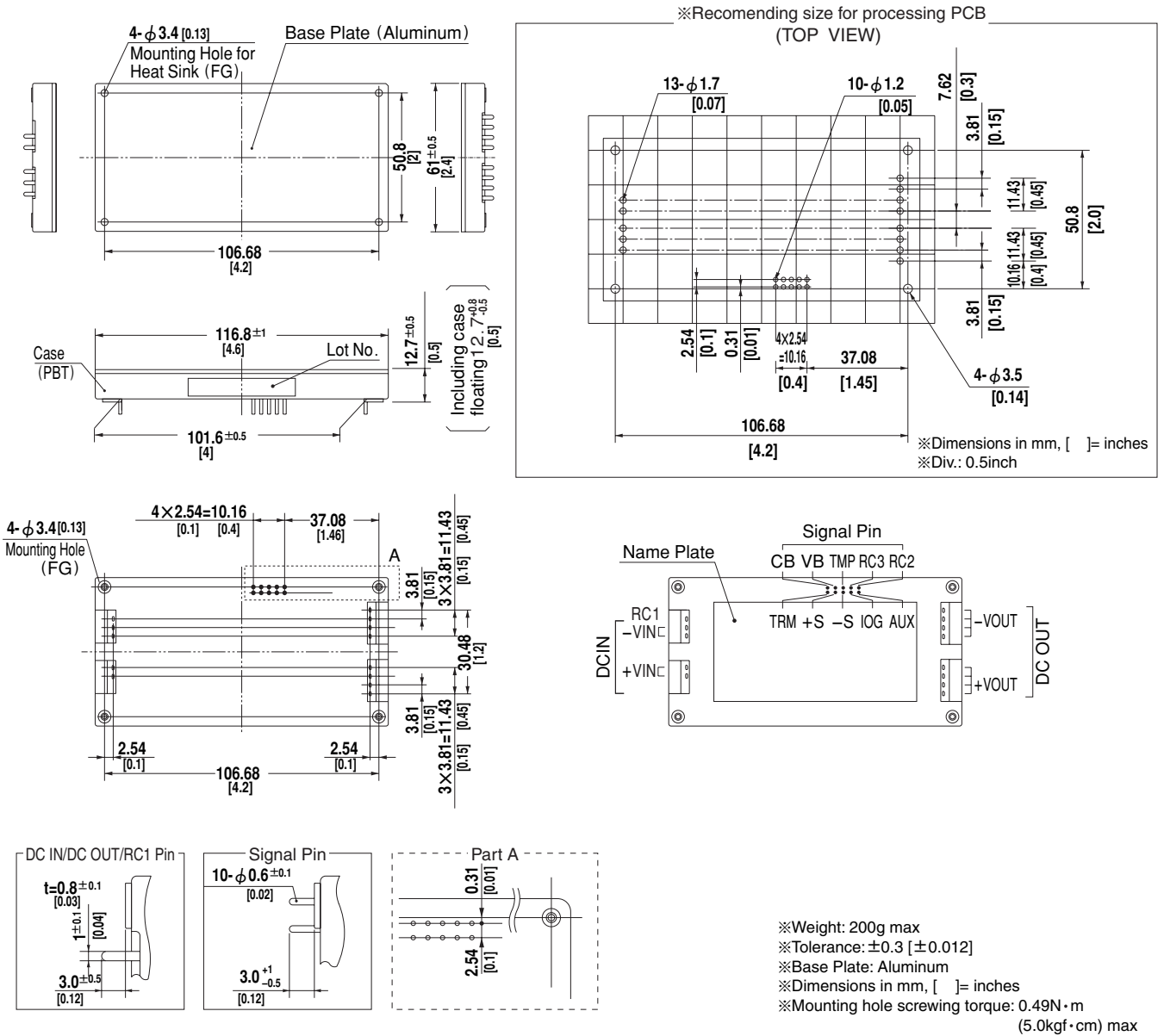
## SPECIFICATIONS

	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	17typ															
	EFFICIENCY[%]	<table border="1"> <tr> <td>Io=100%</td> <td>89typ(DCIN 24V)</td> <td>83typ(DCIN 24V)</td> <td>87typ(DCIN 24V)</td> <td>86typ(DCIN 24V)</td> <td>89typ(DCIN 24V)</td> <td>89typ(DCIN 48V)</td> <td>89typ(DCIN 48V)</td> </tr> <tr> <td>Io=50%</td> <td>90typ(DCIN 24V)</td> <td>87typ(DCIN 24V)</td> <td>90typ(DCIN 24V)</td> <td>87typ(DCIN 24V)</td> <td>90typ(DCIN 24V)</td> <td>91typ(DCIN 48V)</td> <td>90typ(DCIN 48V)</td> </tr> </table>	Io=100%	89typ(DCIN 24V)	83typ(DCIN 24V)	87typ(DCIN 24V)	86typ(DCIN 24V)	89typ(DCIN 24V)	89typ(DCIN 48V)	89typ(DCIN 48V)	Io=50%	90typ(DCIN 24V)	87typ(DCIN 24V)	90typ(DCIN 24V)	87typ(DCIN 24V)	90typ(DCIN 24V)	91typ(DCIN 48V)	90typ(DCIN 48V)					
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Io=50%	90typ(DCIN 24V)	87typ(DCIN 24V)	90typ(DCIN 24V)	87typ(DCIN 24V)	90typ(DCIN 24V)	91typ(DCIN 48V)	90typ(DCIN 48V)																
OUTPUT	VOLTAGE[V]	28	12.5	12.5	28	28	12.5	28															
	CURRENT[A]	18	48	48	22	22	56	25															
	LINE REGULATION[mV]	95max	40max	40max	95max	95max	40max	95max															
	LOAD REGULATION[mV]	190max	100max	100max	190max	190max	100max	190max															
	RIPPLE[mVp-p]	0 to +85°C	120max	120max	120max	120max	120max	120max	120max														
		-20 - 0°C	160max	160max	160max	160max	160max	160max	160max														
	RIPPLE NOISE[mVp-p]	0 to +85°C	150max	150max	150max	150max	150max	150max	150max														
		-20 - 0°C	180max	180max	180max	180max	180max	180max	180max														
	TEMPERATURE REGULATION[mV]	0 to +65°C	280max	120max	120max	280max	280max	120max	280max														
		-20 to +85°C	480max	200max	200max	480max	480max	200max	480max														
DRIFT[mV]	90max	40max	40max	90max	90max	40max	90max																
START-UP TIME[ms]	200max (DCIN 24V, Io=100%)						200max (DCIN 48V, Io=100%)																
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), 80 - 110% adjustable by external VR or external voltage																						
	22.40 - 32.00 *4 *5	10.00 - 13.75	10.00 - 13.75 *5	22.40 - 30.80	22.40 - 32.00 *4 *5	10.00 - 13.75	22.40 - 32.00 *4																
OUTPUT VOLTAGE SETTING[V]	27.72 - 28.28 *6	12.00 - 13.00	12.00 - 13.00	26.88 - 29.12	26.88 - 29.12	12.00 - 13.00	26.88 - 29.12																
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 <sup>2</sup> (5G) 3minutes period, 60minutes each along X, Y and Z axis																					
	IMPACT	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis																					
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1																					
OTHERS	CASE SIZE/WEIGHT	61 x 12.7 x 116.8mm [2.4 x 0.5 x 4.6 inches] (W x H x 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.

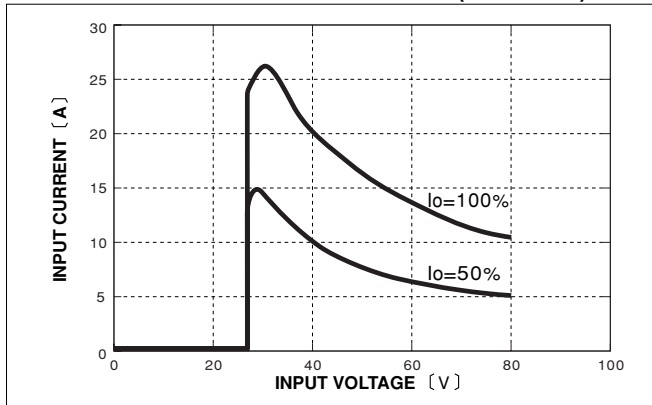
External view



CDS

Performance data

INPUT CURRENT CHARACTERISTICS (CDS60048)



EFFICIENCY CHARACTERISTICS (CDS60048)

