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## CDS600



### Features

- Built-in Remote ON/OFF
- Mounting hole (M3 tapped)
- Ideal for distributed power systems
- Thin and small size
- Inverter operating monitoring (IOG)
- RoHS Compliant

### Safety Agency Approvals

UL60950, C-UL, EN60950

### CE Markings

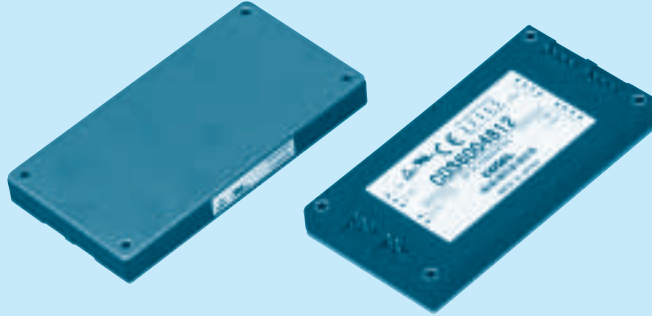
Low Voltage Directive

**5 year warranty(refer to Instruction Manual)**

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
CDS5002428H	DC 18 - 36	504	28V 18A
CDS6002412	DC 18 - 36	600	12.5V 48A
CDS6002412H	DC 20.5 - 36	600	12.5V 48A
CDS6002428	DC 18 - 36	616	28V 22A
CDS6002428H	DC 19 - 36	616	28V 22A
CDS6004812	DC 36 - 76	700	12.5V 56A
CDS6004828	DC 36 - 76	700	28V 25A

# CDS500/600

CD
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- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage  
24: DC18 - 36V  
48: DC36 - 76V
- ⑤ Output voltage
- ⑥ H: High Efficiency  
(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

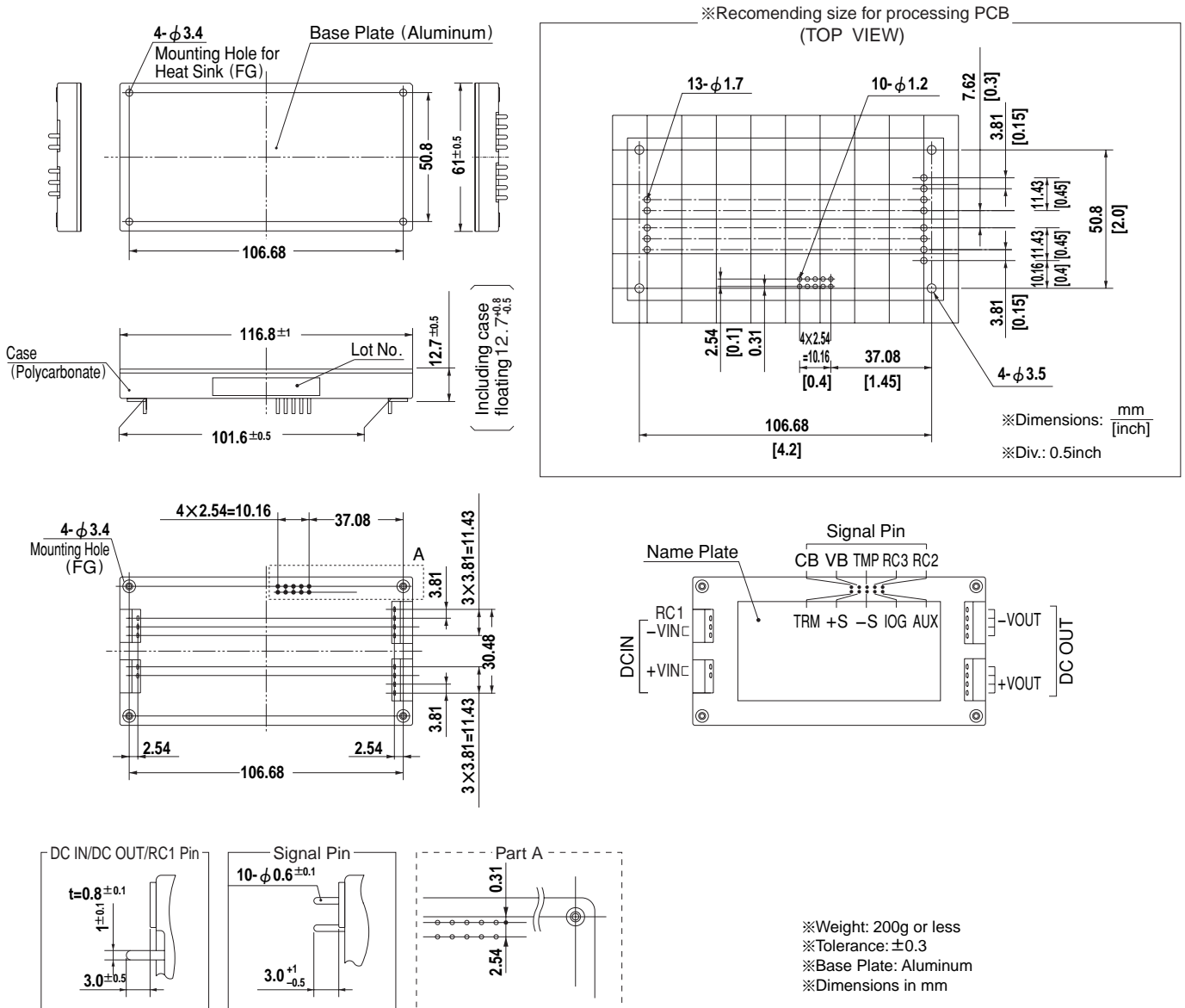
## SPECIFICATIONS

	MODEL	CDS5002428H	CDS6002412	CDS6002412H	CDS6002428	CDS6002428H	CDS6004812	CDS6004828	
INPUT	VOLTAGE[V]	DC18 - 36		DC20.5 - 36	DC18 - 36	DC19 - 36	DC36 - 76		
	CURRENT[A]	*1 24typ	30typ	29typ	30typ	29typ	17typ	17typ	
	EFFICIENCY[%]	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)	
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 *2	120max	120max	120max	120max	120max	120max	120max
		-20 - 0°C *2	160max	160max	160max	160max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +85°C *2	150max	150max	150max	150max	150max	150max	150max
		-20 - 0°C *2	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]	*3 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)								
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 × 12.7 × 116.8mm (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.

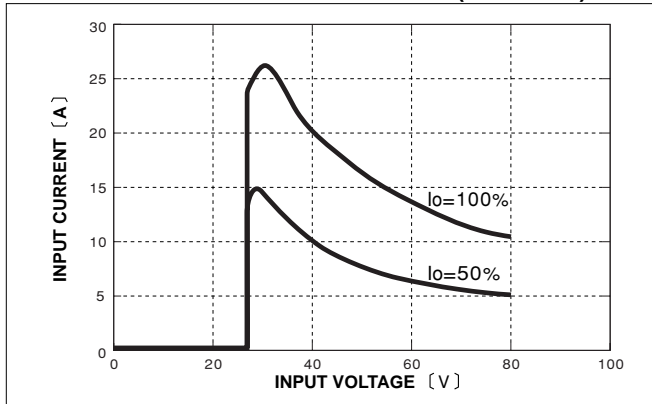
\*4 CDS5002428H, CDS6002428H, CDS6004828: Output voltage adjustment range is 80 - 114.3%.  
 \*5 CDS5002428H, CDS6002412H, CDS6002428H: When the output voltage adjustment range is 101% or more, the input voltage range is limited (Refer to Instruction Manual).  
 \*6 Aluminum baseplate temperature Tc=25°C  
 \*7 Please consult us in regard to use from -40°C.

External view



Performance data

INPUT CURRENT CHARACTERISTICS (CDS60048)



EFFICIENCY CHARACTERISTICS (CDS60048)

