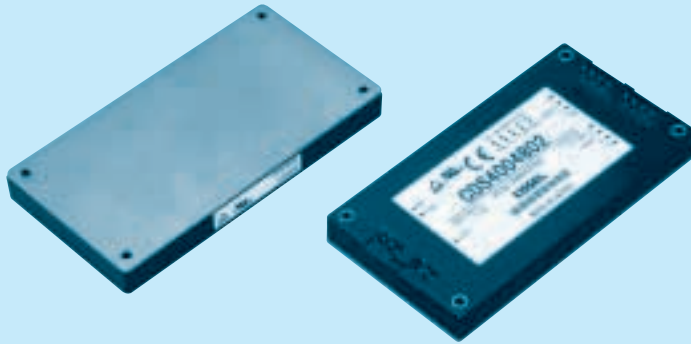


CDS40048

CD S 400 48 12 - □

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
M:with Mounting hole
M3 tapped

| MODEL | CDS4004802 | CDS4004803 | CDS4004805 | CDS4004807 | CDS4004812 | CDS4004815 | CDS4004824 | CDS4004828 |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| MAX OUTPUT WATTAGE[W] | 200 | 330 | 400 | 405 | 500 | 510 | 504 | 504 |
| DC OUTPUT | 2V 100A | 3.3V 100A | 5V 80A | 7.5V 54A | 12.5V 40A | 15V 34A | 24V 21A | 28V 18A |

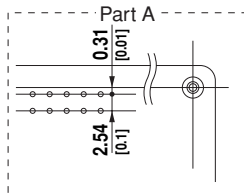
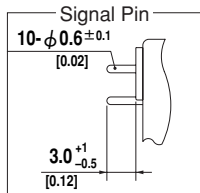
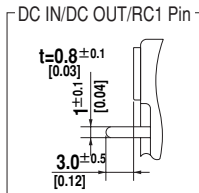
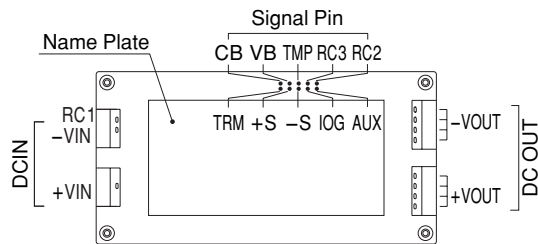
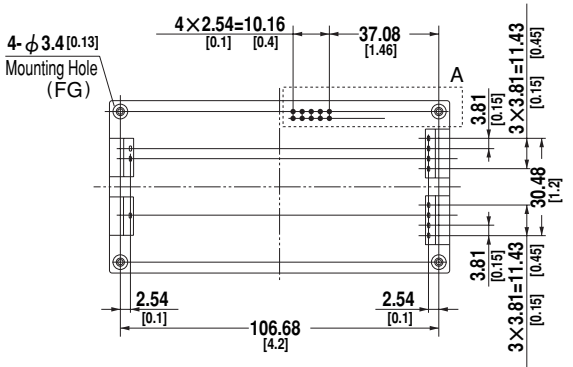
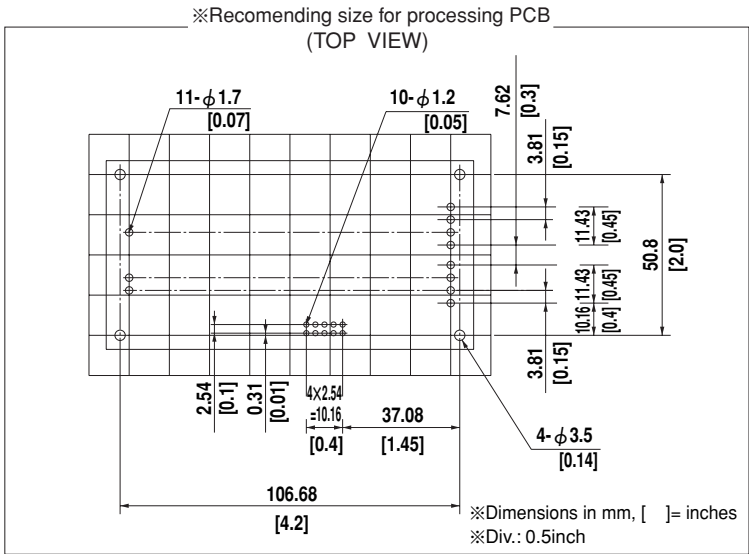
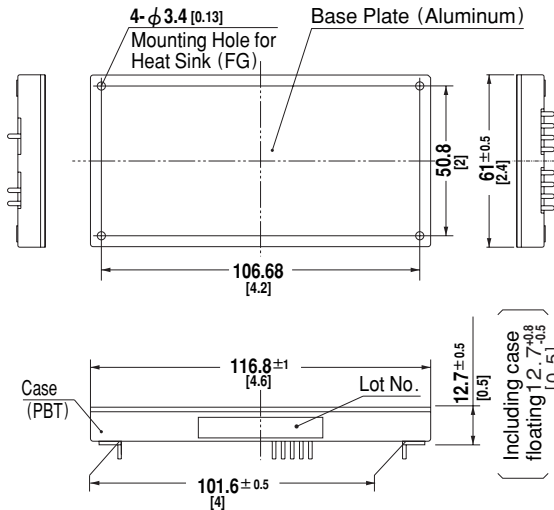
SPECIFICATIONS

| | MODEL | CDS4004802 | CDS4004803 | CDS4004805 | CDS4004807 | CDS4004812 | CDS4004815 | CDS4004824 | CDS4004828 | |
|------------------------------------|---|---|-------------|--------------|---------------|---------------|---------------|----------------|------------|--------|
| INPUT | VOLTAGE[V] | DC36 - 76 | | | | | | | | |
| | CURRENT[A] | *1 6typ | 9typ | 10typ | 10typ | 12typ | 12typ | 12typ | 12typ | |
| | EFFICIENCY[%] | DCIN 48V, Io=100% | 73typ | 80typ | 84typ | 87typ | 89typ | 89typ | 89typ | 89typ |
| DCIN 48V, Io=50% | | 75typ | 82typ | 86typ | 88typ | 91typ | 90typ | 90typ | 90typ | |
| OUTPUT | VOLTAGE[V] | 2 | 3.3 | 5 | 7.5 | 12.5 | 15 | 24 | 28 | |
| | CURRENT[A] | 100 | 100 | 80 | 54 | 40 | 34 | 21 | 18 | |
| | LINE REGULATION[mV] | 10max | 16max | 20max | 30max | 40max | 60max | 95max | 95max | |
| | LOAD REGULATION[mV] | 20max | 30max | 40max | 60max | 100max | 150max | 190max | 190max | |
| | RIPPLE[mVp-p] | 0 to +85°C *2 | 80max | 80max | 80max | 100max | 120max | 120max | 120max | 120max |
| | | -20 to 0°C *2 | 140max | 140max | 140max | 150max | 160max | 160max | 160max | 160max |
| | RIPPLE NOISE[mVp-p] | 0 to +85°C *2 | 100max | 100max | 100max | 140max | 150max | 150max | 150max | 150max |
| | | -20 to 0°C *2 | 150max | 150max | 150max | 160max | 180max | 180max | 180max | 180max |
| | TEMPERATURE REGULATION[mV] | 0 to +65°C | 25max | 35max | 50max | 75max | 120max | 180max | 280max | 280max |
| | | -20 to +85°C | 40max | 60max | 85max | 130max | 200max | 310max | 480max | 480max |
| | DRIFT[mV] | *3 10max | 16max | 20max | 30max | 40max | 60max | 90max | 90max | |
| START-UP TIME[ms] | 200max (DCIN 48V, Io=100%) | | | | | | | | | |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | Fixed (TRM pin open), 60 - 110% adjustable by external VR or external voltage | | | | | | | | | |
| | 1.0 - 2.2 *4 | 1.98 - 3.63 | 3.0 - 5.5 | 4.50 - 8.25 | 7.50 - 13.75 | 9.0 - 16.5 | 14.4 - 26.4 | 16.8 - 32.0 *5 | | |
| OUTPUT VOLTAGE SETTING[V] | 1.95 - 2.10 | 3.25 - 3.45 | 4.90 - 5.20 | 7.25 - 7.85 | 12.00 - 13.00 | 14.40 - 15.60 | 23.04 - 24.96 | 26.88 - 29.12 | | |
| OVERCURRENT PROTECTION | Works over 105% of rating and recovers automatically | | | | | | | | | |
| OVERVOLTAGE PROTECTION[V] | 2.80 - 4.50 | 4.00 - 5.50 | 5.75 - 7.00 | 8.60 - 10.50 | 14.35 - 17.50 | 17.25 - 21.00 | 27.60 - 33.60 | 33.00 - 39.20 | | |
| REMOTE SENSING | Provided | | | | | | | | | |
| REMOTE ON/OFF | Provided (On both side of input and output) | | | | | | | | | |
| ISOLATION | INPUT-OUTPUT | DC1500V 1minute, DC500V 50MΩ min (20±15°C) | | | | | | | | |
| | INPUT-FG | DC1500V 1minute, 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 *6 | -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) / 180g max | | | | | | | | |
| | COOLING METHOD | Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink) | | | | | | | | |

*1 At rated input(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 When using with in the range of 1-1.2V, please consult with us.
 *5 CDS4004828 : Output voltage adjustment range is 60 - 114.3%.
 *6 Please consult us in regard to use from -40°C.

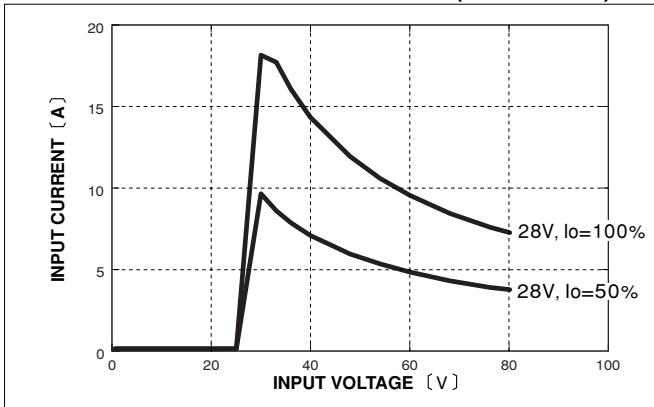
External view



- ※Weight: 180g max
- ※Tolerance: ±0.3 [±0.012]
- ※Base Plate: Aluminum
- ※Dimensions in mm, [] = inches
- ※Mounting hole screwing torque: 0.49N·m (5.0kgf·cm) max

Performance data

INPUT CURRENT CHARACTERISTICS (CDS4004828)



EFFICIENCY CHARACTERISTICS (CDS40048)

