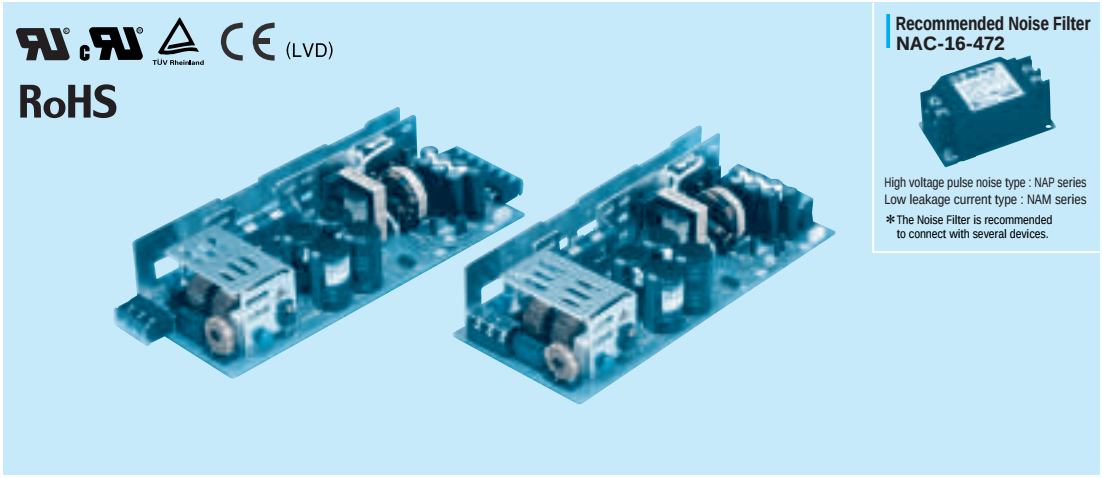
COSEL **Rugged PCB type**

# LDA300W

## Ordering information

| LDA | 300 | W | -5 | -□ |
|---|---|---|---|---|
| ① | ② | ③ | ④ | ⑤ |



Recommended Noise Filter
NAC-16-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The Noise Filter is recommended to connect with several devices.

①Series name
②Output wattage
③Autoranging input
④Output voltage
⑤Optional
C :with Coating
G :Low leakage current
L :with LED
R :with Remote ON/OFF
S :with Chassis
SNF:with Chassis & cover & fan
T :Vertical terminal block

| MODEL | LDA300W-3 | LDA300W-5 | LDA300W-9 | LDA300W-12 | LDA300W-15 | LDA300W-18 | LDA300W-24 | LDA300W-30 | LDA300W-48 |
|---|---|---|---|---|---|---|---|---|---|
| MAX OUTPUT WATTAGE[W] | 180 | 300 | 306 | 324 | 330 | 306 | 336 | 300 | 302.4 |
| DC OUTPUT | 3V 60A | 5V 60A | 9V 34A | 12V 27A | 15V 22A | 18V 17A | 24V 14A | 30V 10A | 48V 6.3A |

## SPECIFICATIONS

| | MODEL | | LDA300W-3 | LDA300W-5 | LDA300W-9 | LDA300W-12 | LDA300W-15 | LDA300W-18 | LDA300W-24 | LDA300W-30 | LDA300W-48 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| INPUT | VOLTAGE[V] | | AC 85 - 132 / 170 - 264 1φ | | | | | | | | |
| | CURRENT[A] | ACIN 100V | 7.5typ (Io=100%) | | | | | | | | |
| | | ACIN 200V | 4.5typ (Io=100%) | | | | | | | | |
| | FREQUENCY[Hz] | | 47 - 440 | | | | | | | | |
| | EFFICIENCY[%] | ACIN 100V | 72typ | 78typ | 78typ | 80typ | 81typ | 81typ | 83typ | 83typ | 83typ |
| | | ACIN 200V | 74typ | 81typ | 81typ | 83typ | 84typ | 84typ | 86typ | 86typ | 86typ |
| | INRUSH CURRENT[A] | ACIN 100V | 15/30A typ (Primary/Secondary Surge Current) Io=100% (More than 3sec.to re-start) | | | | | | | | |
| | | ACIN 200V | 30/30typ (Primary/Secondary Surge Current) Io=100% (More than 3sec.to re-start) | | | | | | | | |
| | LEAKAGE CURRENT[mA] | | 0.75max (60Hz, According to UL, CSA, VDE and DEN-AN) | | | | | | | | |
| OUTPUT | VOLTAGE[V] | | 3 | 5 | 9 | 12 | 15 | 18 | 24 | 30 | 48 |
| | CURRENT[A] | Forced air | 60 | 60 | 34 | 27 | 22 | 17 | 14 | 10 | 6.3 |
| | | Convection *1 | 40 (60) | 40 (60) | 23 (34) | 17 (27) | 14 (22) | 12 (17) | 9 (14) | 7 (10) | 4.2 (6.3) |
| | LINE REGULATION[mV] | | 20max | 20max | 36max | 48max | 60max | 72max | 96max | 120max | 192max |
| | LOAD REGULATION[mV] | | 40max | 40max | 100max | 100max | 120max | 120max | 150max | 180max | 240max |
| | RIPPLE[mVp-p] | 0 to +50℃ *2 | 80max | 80max | 120max | 120max | 120max | 120max | 120max | 120max | 150max |
| | | -10 - 0℃ *2 | 140max | 140max | 160max | 160max | 160max | 160max | 160max | 160max | 200max |
| | RIPPLE NOISE[mVp-p] | 0 to +50℃ *2 | 120max | 120max | 150max | 150max | 150max | 150max | 150max | 150max | 400max |
| | | -10 - 0℃ *2 | 160max | 160max | 180max | 180max | 180max | 180max | 180max | 180max | 600max |
| | TEMPERATURE REGULATION[mV] | | 60max | 60max | 120max | 150max | 180max | 200max | 290max | 360max | 560max |
| | DRIFT[mV] | *3 | 20max | 20max | 36max | 48max | 60max | 72max | 96max | 120max | 192max |
| | START-UP TIME[ms] | | 200max (ACIN 100V, Io=100%) | | | | | | | | |
| | HOLD-UP TIME[ms] | | 10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%) | | | | | | | | |
| | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | | 2.85 - 3.6 | 5, 9, 12, 15, 18, 24, 30, 48V ±10% | | | | | | | |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION | | Works over 105% of rating and recovers automatically | | | | | | | | |
| | OVERVOLTAGE PROTECTION | | 4.00 - 5.25V | Works at 115 - 140% of rating | | | | | | | |
| | OPERATING INDICATION | | Not provided | | | | | | | | |
| | REMOTE SENSING | | Provided | | | | | | | | |
| | REMOTE ON/OFF | | Option (Refer to Instruction Manual) | | | | | | | | |
| ISOLATION | INPUT-OUTPUT | | AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | | | | | | |
| | INPUT-FG | | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature) | | | | | | | | |
| | OUTPUT-FG | | AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature) | | | | | | | | |
| ENVIRONMENT | OPERATING TEMP.,HUMID.AND ALTITUDE | | -10 to +70℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max | | | | | | | | |
| | STORAGE TEMP.,HUMID.AND ALTITUDE | | -20 to +75℃, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max | | | | | | | | |
| | VIBRATION | | 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | | | | | |
| | IMPACT | | 196.1m/s² (20G), 11ms, once each X, Y and Z axis | | | | | | | | |
| SAFETY AND NOISE REGULATIONS | AGENCY APPROVALS | | UL60950-1, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1 | | | | | | | | |
| | CONDUCTED NOISE | | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B | | | | | | | | |
| OTHERS | CASE SIZE/WEIGHT | | 108×50×255mm (W×H×D) /1kg max (without terminal block) | | | | | | | | |
| | COOLING METHOD | | Convection / Forced air (Refer to DERATING CURVE) | | | | | | | | |

*1 Peak load for 30sec. or less is acceptable if the total wattage is less than the rated wattage.
*2 This is the value that measured on measuring board with capacitor of 22μF within 150mm from output terminal.
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
* Parallel operation with other model is not possible.
* Derating is required when operated with chassis and cover.