

# LDC15F

LD C 15 F -1 -□

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional \*4  
 C :with Coating  
 G :Low leakage current  
 S :with Chassis  
 SN :with Chassis & cover  
 Y :with Potentiometer

LDC

| MODEL     | LDC15F-1 |                     | LDC15F-2            |  |
|-----------|----------|---------------------|---------------------|--|
| DC OUTPUT | V1       | +5V 2.0(Peak 3.0)A  | +5V 2.0(Peak 3.0)A  |  |
|           | V2       | +12V 0.3(Peak 0.6)A | +15V 0.3(Peak 0.6)A |  |
|           | V3       | -12V 0.2(Peak 0.3)A | -15V 0.2(Peak 0.3)A |  |

## SPECIFICATIONS

|                                    | MODEL  | LDC15F-1   |                    |                    | LDC15F-2           |                    |                    |        |
|------------------------------------|--|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------|
| INPUT                              | VOLTAGE[V]   | AC85 - 264 1 φ or DC110 - 370  |                    |                    |                    |                    |                    |        |
|                                    | CURRENT[A]   | ACIN 100V  | 0.4typ (Io=100%)   |                    |                    |                    |                    |        |
|                                    | FREQUENCY[Hz]  | 47 - 440 or DC   |                    |                    |                    |                    |                    |        |
|                                    | EFFICIENCY[%]  | ACIN 100V  | 70typ (Io=100%)    |                    |                    |                    |                    |        |
|                                    | INRUSH CURRENT[A]                                    | ACIN 100V  | 25typ (Io=100%)    |                    |                    |                    |                    |        |
|                                    |  | ACIN 200V  | 50typ (Io=100%)    |                    |                    |                    |                    |        |
| LEAKAGE CURRENT[ma]                | 0.75max (60Hz, According to UL, CSA, VDE and DEN-AN) |  |                    |                    |                    |                    |                    |        |
| OUTPUT                             | VOLTAGE[V]   | +5   | +12                | -12                | +5                 | +15                | -15                |        |
|                                    | CURRENT[A]   | *1 0 - 2.0 (Peak 3.0)  | 0 - 0.3 (Peak 0.6) | 0 - 0.2 (Peak 0.3) | 0 - 2.0 (Peak 3.0) | 0 - 0.3 (Peak 0.6) | 0 - 0.2 (Peak 0.3) |        |
|                                    | LINE REGULATION[mV]                                  | 20max  | 48max              | 48max              | 20max              | 60max              | 60max              |        |
|                                    | LOAD REGULATION[mV]                                  | 100max   | 120max             | 120max             | 100max             | 150max             | 150max             |        |
|                                    | RIPPLE[mVp-p]  | 0 to +50°C *2  | 100max             | 120max             | 120max             | 100max             | 120max             | 120max |
|                                    |  | -10 - 0°C *2   | 140max             | 160max             | 160max             | 140max             | 160max             | 160max |
|                                    | RIPPLE NOISE[mVp-p]                                  | 0 to +50°C *2  | 120max             | 150max             | 150max             | 120max             | 150max             | 150max |
|                                    |  | -10 - 0°C *2   | 160max             | 180max             | 180max             | 160max             | 180max             | 180max |
|                                    | TEMPERATURE REGULATION[mV]                           | 0 to +50°C   | 50max              | 350max             | 350max             | 50max              | 350max             | 350max |
|                                    |  | -10 to +50°C   | 60max              | 420max             | 420max             | 60max              | 420max             | 420max |
|                                    | DRIFT[mV]  | *3 20max   | —                  | —                  | 20max              | —                  | —                  |        |
|                                    | START-UP TIME[ms]                                    | 100max (ACIN 85V, Io=100%)   |                    |                    |                    |                    |                    |        |
|                                    | HOLD-UP TIME[ms]                                     | 10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%), 100typ (ACIN 200V, Io=100%)               |                    |                    |                    |                    |                    |        |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | Fixed  | Fixed  | Fixed              | Fixed              | Fixed              | Fixed              |                    |        |
| OUTPUT VOLTAGE SETTING[V]          | 4.9 to 5.3   | 11.4 to 12.6   | -11.4 to -12.6     | 4.9 to 5.3         | 14.25 to 15.75     | -14.25 to -15.75   |                    |        |
| PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                               | Works over 105% of rating and recovers automatically   |                    |                    |                    |                    |                    |        |
|                                    | OVERVOLTAGE PROTECTION                               | Works over 115% of rating by zener diode clamping (+5V only)                                     |                    |                    |                    |                    |                    |        |
|                                    | OPERATING INDICATION                                 | Not provided   |                    |                    |                    |                    |                    |        |
|                                    | REMOTE SENSING                                       | Not provided   |                    |                    |                    |                    |                    |        |
| ISOLATION                          | REMOTE ON/OFF  | Not provided   |                    |                    |                    |                    |                    |        |
|                                    | 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                        | OUTPUT-OUTPUT(V1-V2,V3)                              | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                    |                    |                    |                    |                    |                    |        |
|                                    | OPERATING TEMP.,HUMID.AND ALTITUDE                   | -10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)         |                    |                    |                    |                    |                    |        |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE                     | -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet)                                   |                    |                    |                    |                    |                    |        |
|                                    | VIBRATION  | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis      |                    |                    |                    |                    |                    |        |
| SAFETY AND NOISE REGULATIONS       | IMPACT   | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis                                     |                    |                    |                    |                    |                    |        |
|                                    | AGENCY APPROVALS                                     | UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with DEN-AN and IEC60950-1          |                    |                    |                    |                    |                    |        |
|                                    | CONDUCTED NOISE                                      | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B  |                    |                    |                    |                    |                    |        |
| OTHERS                             | CASE SIZE/WEIGHT                                     | 50 X 26 X 127mm [1.97 X 1.02 X 5 inches] (W X H X D) /150g max (with chassis & cover : 300g max) |                    |                    |                    |                    |                    |        |
|                                    | COOLING METHOD                                       | Convection   |                    |                    |                    |                    |                    |        |

\*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 16W, -2: 17.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.  
 \*2 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 Please contact us about safety approvals for the model with option.  
 \* Avoid prolonged use under over-load.  
 \* Derating is required when operated with chassis and cover.

## External view

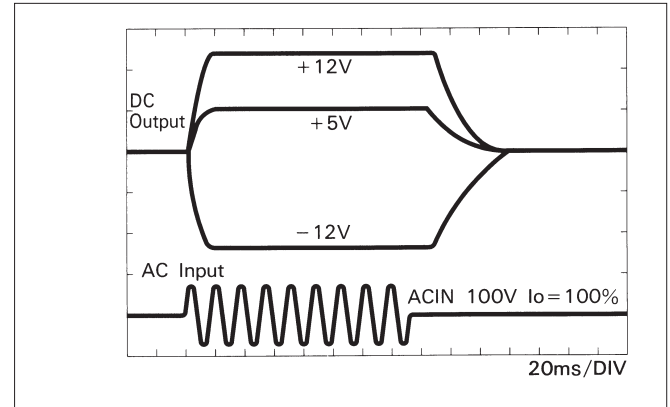


## Performance data

### ■ STATIC CHARACTERISTICS (LDC15F-1)



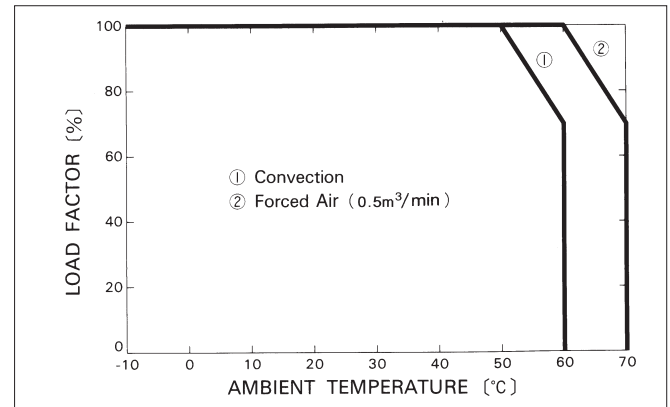
### ■ RISE TIME & FALL TIME (LDC15F-1)



### ■ OVERCURRENT CHARACTERISTICS (LDC15F-1)



### ■ DERATING CURVE



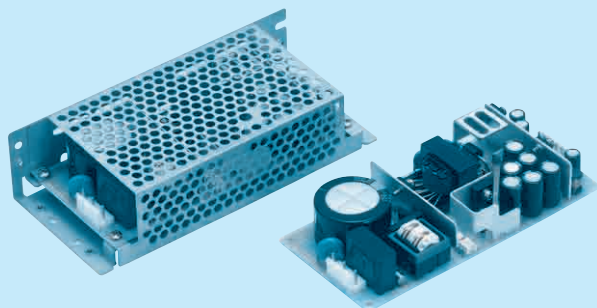
# LDC30F

LD C 30 F -1 -□

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional \*4  
 C :with Coating  
 G :Low leakage current  
 S :with Chassis  
 SN :with Chassis & cover  
 Y :with Potentiometer

LDC

| MODEL     | LDC30F-1 |                      | LDC30F-2             |  |
|-----------|----------|----------------------|----------------------|--|
| DC OUTPUT | V1       | +5V 3.0(Peak 4.5)A   | +5V 3.0(Peak 4.5)A   |  |
|           | V2       | +12V 1.2(Peak 2.0)A  | +15V 1.0(Peak 2.0)A  |  |
|           | V3       | -12V 0.3(Peak 0.45)A | -15V 0.3(Peak 0.45)A |  |

## SPECIFICATIONS

|                                    | MODEL  | LDC30F-1   |                                 |                     | LDC30F-2           |                    |                     |        |
|------------------------------------|--|--|---------------------------------|---------------------|--------------------|--------------------|---------------------|--------|
| INPUT                              | VOLTAGE[V]   | AC85 - 264 1 φ or DC110 - 370  |                                 |                     |                    |                    |                     |        |
|                                    | CURRENT[A]   | ACIN 100V  | 0.8typ (Io=100%)                |                     |                    |                    |                     |        |
|                                    | FREQUENCY[Hz]  | 47 - 440 or DC   |                                 |                     |                    |                    |                     |        |
|                                    | EFFICIENCY[%]  | ACIN 100V  | 72typ (Io=100%)                 |                     |                    |                    |                     |        |
|                                    | INRUSH CURRENT[A]                                    | ACIN 100V  | 25typ (Io=100%) (At cold start) |                     |                    |                    |                     |        |
|                                    |  | ACIN 200V  | 50typ (Io=100%) (At cold start) |                     |                    |                    |                     |        |
| LEAKAGE CURRENT[ma]                | 0.75max (60Hz, According to UL, CSA, VDE and DEN-AN) |  |                                 |                     |                    |                    |                     |        |
| OUTPUT                             | VOLTAGE[V]   | +5   | +12                             | -12                 | +5                 | +15                | -15                 |        |
|                                    | CURRENT[A]   | *1 0 - 3.0 (Peak 4.5)  | 0 - 1.2 (Peak 2.0)              | 0 - 0.3 (Peak 0.45) | 0 - 3.0 (Peak 4.5) | 0 - 1.0 (Peak 2.0) | 0 - 0.3 (Peak 0.45) |        |
|                                    | LINE REGULATION[mV]                                  | 20max  | 48max                           | 48max               | 20max              | 60max              | 60max               |        |
|                                    | LOAD REGULATION[mV]                                  | 100max   | 120max                          | 150max              | 100max             | 120max             | 150max              |        |
|                                    | RIPPLE[mVp-p]  | 0 to +50°C *2  | 100max                          | 120max              | 120max             | 100max             | 120max              | 120max |
|                                    |  | -10 - 0°C *2   | 150max                          | 160max              | 160max             | 150max             | 160max              | 160max |
|                                    | RIPPLE NOISE[mVp-p]                                  | 0 to +50°C *2  | 120max                          | 150max              | 150max             | 120max             | 150max              | 150max |
|                                    |  | -10 - 0°C *2   | 170max                          | 180max              | 180max             | 170max             | 180max              | 180max |
|                                    | TEMPERATURE REGULATION[mV]                           | 0 to +50°C   | 50max                           | 350max              | 350max             | 50max              | 350max              | 350max |
|                                    |  | -10 to +50°C   | 60max                           | 420max              | 420max             | 60max              | 420max              | 420max |
|                                    | DRIFT[mV]  | *3 20max   | —                               | —                   | 20max              | —                  | —                   |        |
|                                    | START-UP TIME[ms]                                    | 100max (ACIN 85V, Io=100%)   |                                 |                     |                    |                    |                     |        |
|                                    | HOLD-UP TIME[ms]                                     | 10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%), 100typ (ACIN 200V, Io=100%)                   |                                 |                     |                    |                    |                     |        |
| OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | Fixed  | Fixed  | Fixed                           | Fixed               | Fixed              | Fixed              |                     |        |
| OUTPUT VOLTAGE SETTING[V]          | 4.9 to 5.3   | 11.4 to 12.6   | -11.4 to -12.6                  | 4.9 to 5.3          | 14.25 to 15.75     | -14.25 to -15.75   |                     |        |
| PROTECTION CIRCUIT AND OTHERS      | OVERCURRENT PROTECTION                               | Works over 105% of rating and recovers automatically   |                                 |                     |                    |                    |                     |        |
|                                    | OVERVOLTAGE PROTECTION                               | Works at 115 - 140% of rating (+5V only)   |                                 |                     |                    |                    |                     |        |
|                                    | OPERATING INDICATION                                 | Not provided   |                                 |                     |                    |                    |                     |        |
|                                    | REMOTE SENSING                                       | Not provided   |                                 |                     |                    |                    |                     |        |
| ISOLATION                          | REMOTE ON/OFF  | Not provided   |                                 |                     |                    |                    |                     |        |
|                                    | 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                        | OUTPUT-OUTPUT(V1-V2,V3)                              | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                        |                                 |                     |                    |                    |                     |        |
|                                    | OPERATING TEMP.,HUMID.AND ALTITUDE                   | -10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)             |                                 |                     |                    |                    |                     |        |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE                     | -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet)                                       |                                 |                     |                    |                    |                     |        |
|                                    | VIBRATION  | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis          |                                 |                     |                    |                    |                     |        |
| SAFETY AND NOISE REGULATIONS       | IMPACT   | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis   |                                 |                     |                    |                    |                     |        |
|                                    | AGENCY APPROVALS                                     | UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with DEN-AN and IEC60950-1              |                                 |                     |                    |                    |                     |        |
|                                    | CONDUCTED NOISE                                      | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B  |                                 |                     |                    |                    |                     |        |
| OTHERS                             | CASE SIZE/WEIGHT                                     | 65 x 26 x 140mm [2.56 x 1.02 x 5.51 inches] (W x H x D) / 220g max (with chassis & cover : 400g max) |                                 |                     |                    |                    |                     |        |
|                                    | COOLING METHOD                                       | Convection   |                                 |                     |                    |                    |                     |        |

\*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 33W, -2: 34.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.  
 \*2 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 Please contact us about safety approvals for the model with option.  
 \* Avoid prolonged use under over-load.  
 \* Derating is required when operated with chassis and cover.

## External view



LDC

### <PIN CONNECTION>

| I/O Connector | Mating Connector | Terminal |                    |
|---------------|------------------|----------|--------------------|
| CN1           | B3P5-VH          | VHR-5N   | Chain:SVH-21T-P1.1 |
|               |                  |          | Loose:BVH-21T-P1.1 |
| CN2           | B6P-VH           | VHR-6N   | Chain:SVH-21T-P1.1 |
|               |                  |          | Loose:BVH-21T-P1.1 |

(Mfr : J.S.T.)

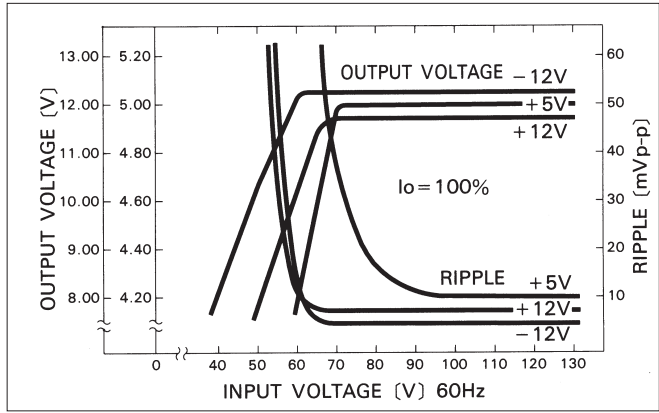
| CN1     |       |
|---------|-------|
| Pin No. | Input |
| 1       | AC(L) |
| 2       |       |
| 3       | AC(N) |
| 4       |       |
| 5       | FG    |

| CN2     |        |
|---------|--------|
| Pin No. | Output |
| 1       | V3     |
| 2       | G2     |
| 3       | G2     |
| 4       | V2     |
| 5       | G1     |
| 6       | V1     |

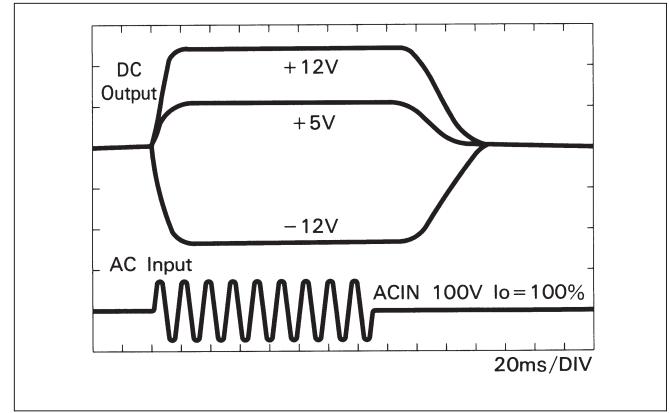
- ※ Weight: 220g max (with chassis & cover : 400g max)
- ※ Tolerance:  $\pm 1$  [ $\pm 0.04$ ]
- ※ Dimensions in mm, [ ] =inches
- ※ PCB Material: Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque: 0.6N·m (6.3kgf·cm) max

## Performance data

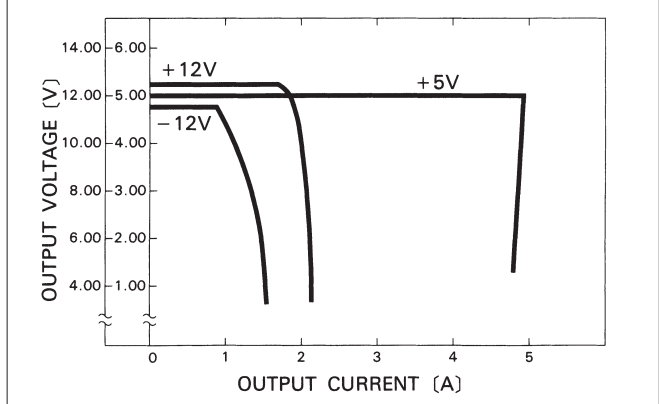
### ■STATIC CHARACTERISTICS (LDC30F-1)



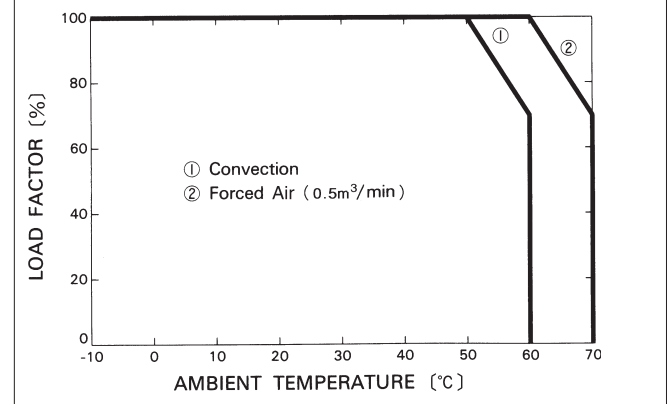
### ■RISE TIME & FALL TIME (LDC30F-1)



### ■OVERCURRENT CHARACTERISTICS (LDC30F-1)



### ■DERATING CURVE



# LDC60F

LD C 60 F -1 -□

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional \*4  
 C :with Coating  
 G :Low leakage current  
 S :with Chassis  
 SN :with Chassis & cover  
 Y :with Potentiometer

LDC

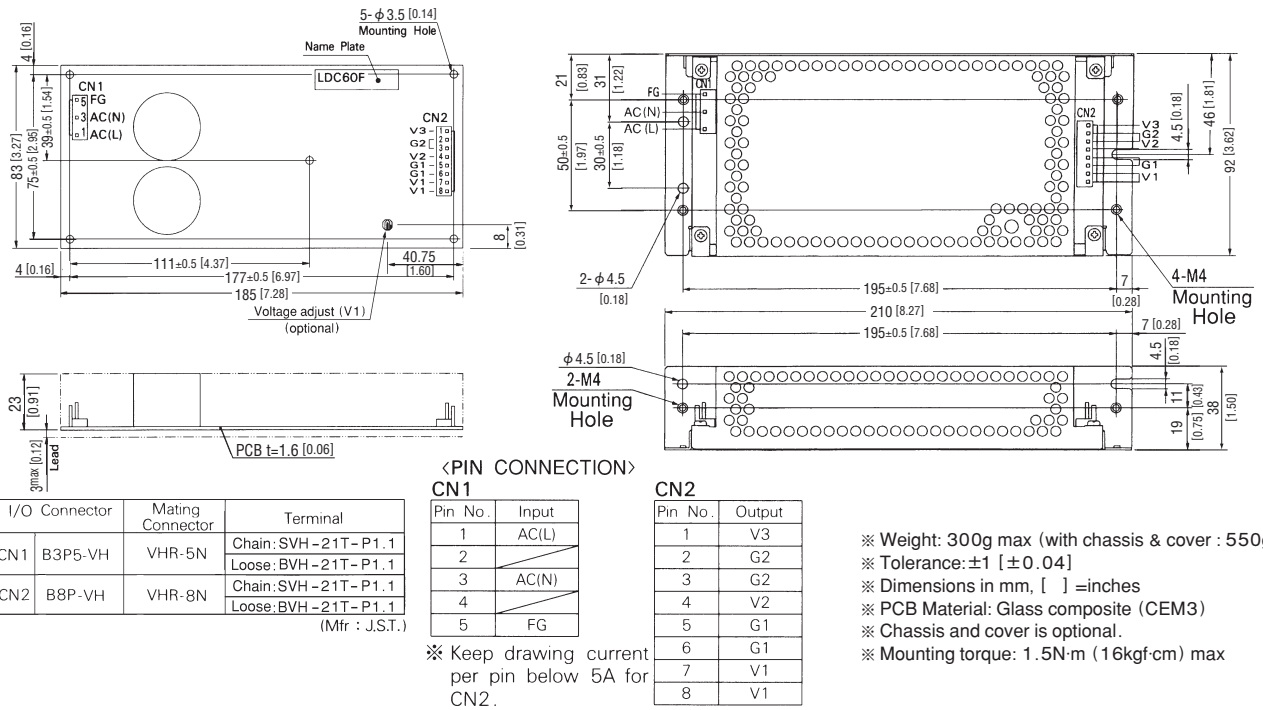
| MODEL     | LDC60F-1 |                     | LDC60F-2            |  |
|-----------|----------|---------------------|---------------------|--|
| DC OUTPUT | V1       | +5V 5.0(Peak 7.0)A  | +5V 5.0(Peak 7.0)A  |  |
|           | V2       | +12V 2.5(Peak 3.5)A | +15V 2.0(Peak 3.5)A |  |
|           | V3       | -12V 0.5(Peak 0.7)A | -15V 0.5(Peak 0.7)A |  |

## SPECIFICATIONS

|                               | MODEL                              | LDC60F-1   |                                 |                    | LDC60F-2           |                    |                    |        |
|-------------------------------|------------------------------------|--|---------------------------------|--------------------|--------------------|--------------------|--------------------|--------|
| INPUT                         | VOLTAGE[V]                         | AC85 - 264 1φ or DC110 - 370   |                                 |                    |                    |                    |                    |        |
|                               | CURRENT[A]                         | ACIN 100V  | 1.4typ (Io=100%)                |                    |                    |                    |                    |        |
|                               | FREQUENCY[Hz]                      | 47 - 440 or DC   |                                 |                    |                    |                    |                    |        |
|                               | EFFICIENCY[%]                      | ACIN 100V  | 72typ (Io=100%)                 |                    |                    |                    |                    |        |
|                               | INRUSH CURRENT[A]                  | ACIN 100V  | 30typ (Io=100%) (At cold start) |                    |                    |                    |                    |        |
|                               |                                    | ACIN 200V  | 60typ (Io=100%) (At cold start) |                    |                    |                    |                    |        |
|                               | LEAKAGE CURRENT[ma]                | 0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)   |                                 |                    |                    |                    |                    |        |
| OUTPUT                        | VOLTAGE[V]                         | +5   | +12                             | -12                | +5                 | +15                | -15                |        |
|                               | CURRENT[A]                         | *1 0 - 5.0 (Peak 7.0)  | 0 - 2.5 (Peak 3.5)              | 0 - 0.5 (Peak 0.7) | 0 - 5.0 (Peak 7.0) | 0 - 2.0 (Peak 3.5) | 0 - 0.5 (Peak 0.7) |        |
|                               | LINE REGULATION[mV]                | 20max  | 48max                           | 48max              | 20max              | 60max              | 60max              |        |
|                               | LOAD REGULATION[mV]                | 100max   | 150max                          | 150max             | 100max             | 150max             | 150max             |        |
|                               | RIPPLE[mVp-p]                      | 0 to +50°C *2  | 100max                          | 120max             | 120max             | 100max             | 120max             | 120max |
|                               |                                    | -10 - 0°C *2   | 150max                          | 160max             | 160max             | 150max             | 160max             | 160max |
|                               | RIPPLE NOISE[mVp-p]                | 0 to +50°C *2  | 120max                          | 150max             | 150max             | 120max             | 150max             | 150max |
|                               |                                    | -10 - 0°C *2   | 170max                          | 180max             | 180max             | 170max             | 180max             | 180max |
|                               | TEMPERATURE REGULATION[mV]         | 0 to +50°C   | 50max                           | 350max             | 350max             | 50max              | 350max             | 350max |
|                               |                                    | -10 to +50°C   | 60max                           | 420max             | 420max             | 60max              | 420max             | 420max |
|                               | DRIFT[mV]                          | *3 20max   | —                               | —                  | 20max              | —                  | —                  |        |
|                               | START-UP TIME[ms]                  | 200max (ACIN 85V, Io=100%)   |                                 |                    |                    |                    |                    |        |
|                               | HOLD-UP TIME[ms]                   | 10typ (ACIN 85V, Io=100%), 20typ (ACIN 100V, Io=100%), 100typ (ACIN 200V, Io=100%)                   |                                 |                    |                    |                    |                    |        |
|                               | OUTPUT VOLTAGE ADJUSTMENT RANGE[V] | Fixed  | Fixed                           | Fixed              | Fixed              | Fixed              | Fixed              |        |
| OUTPUT VOLTAGE SETTING[V]     | 4.9 to 5.3                         | 11.4 to 12.6   | -11.4 to -12.6                  | 4.9 to 5.3         | 14.25 to 15.75     | -14.25 to -15.75   |                    |        |
| PROTECTION CIRCUIT AND OTHERS | OVERCURRENT PROTECTION             | Works over 105% of rating and recovers automatically   |                                 |                    |                    |                    |                    |        |
|                               | OVERVOLTAGE PROTECTION             | Works over 115% of rating by zener diode clamping (only available with V1, V2)                       |                                 |                    |                    |                    |                    |        |
|                               | OPERATING INDICATION               | Not provided   |                                 |                    |                    |                    |                    |        |
|                               | REMOTE SENSING                     | Not provided   |                                 |                    |                    |                    |                    |        |
| ISOLATION                     | REMOTE ON/OFF                      | Not provided   |                                 |                    |                    |                    |                    |        |
|                               | 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                   | OUTPUT-OUTPUT(V1-V2,V3)            | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                        |                                 |                    |                    |                    |                    |        |
|                               | OPERATING TEMP.,HUMID.AND ALTITUDE | -10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)             |                                 |                    |                    |                    |                    |        |
|                               | STORAGE TEMP.,HUMID.AND ALTITUDE   | -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet)                                       |                                 |                    |                    |                    |                    |        |
|                               | VIBRATION                          | 10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis          |                                 |                    |                    |                    |                    |        |
| SAFETY AND NOISE REGULATIONS  | IMPACT                             | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis   |                                 |                    |                    |                    |                    |        |
|                               | AGENCY APPROVALS                   | UL60950-1, EN60950-1, EN50178, CSA C22.2 No.60950-1 Complies with DEN-AN and IEC60950-1              |                                 |                    |                    |                    |                    |        |
|                               | CONDUCTED NOISE                    | Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B  |                                 |                    |                    |                    |                    |        |
| OTHERS                        | CASE SIZE/WEIGHT                   | 83 x 26 x 185mm [3.27 x 1.02 x 7.28 inches] (W x H x D) / 300g max (with chassis & cover : 550g max) |                                 |                    |                    |                    |                    |        |
|                               | COOLING METHOD                     | Convection   |                                 |                    |                    |                    |                    |        |

\*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 61W, -2: 62.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.  
 \*2 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 Please contact us about safety approvals for the model with option.  
 \* Avoid prolonged use under over-load.  
 \* Derating is required when operated with chassis and cover.

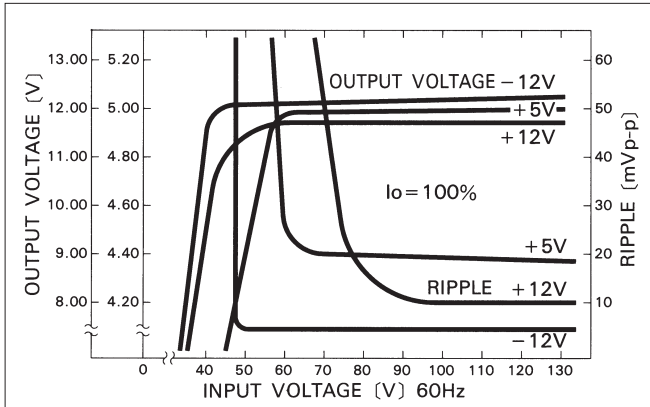
## External view



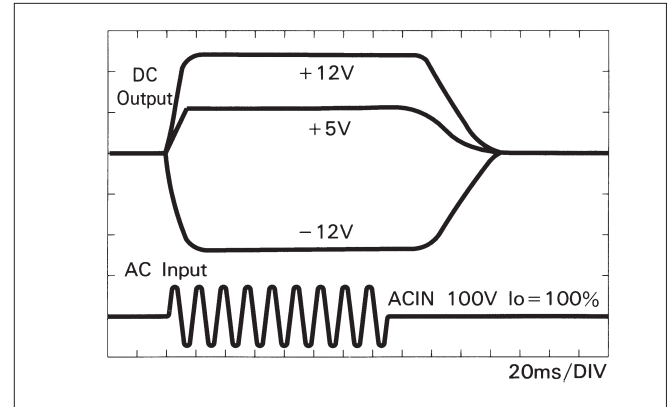
LDC

## Performance data

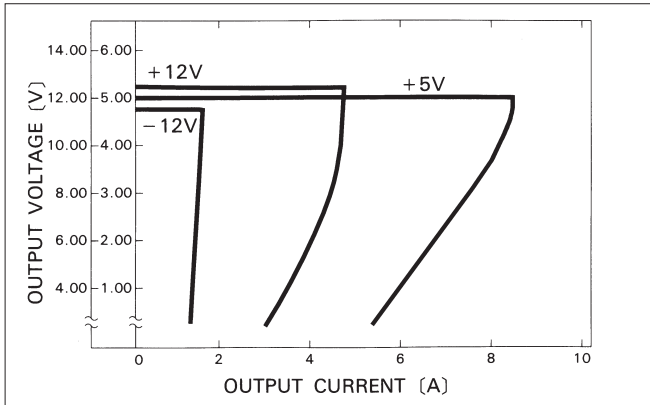
### ■STATIC CHARACTERISTICS (LDC60F-1)



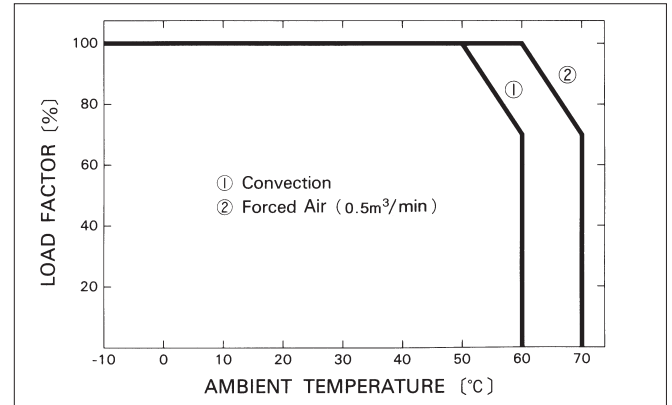
### ■RISE TIME & FALL TIME (LDC60F-1)



### ■OVERCURRENT CHARACTERISTICS (LDC60F-1)



### ■DERATING CURVE



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[SG](#) [LDC30F-2-S](#) [LDC60F-2-Y](#) [LDC15F-1-SNY](#) [LDC30F-1-GY](#) [LDC15F-2-SC](#) [S-LDC15](#) [LDC60F-1-SY](#) [LDC15F-2-Y](#)  
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#### Как с нами связаться

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