

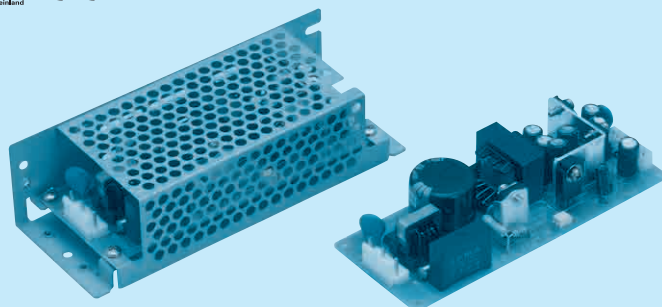
# LDC15F

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<br>V2 +12V 0.3(Peak 0.6)A<br>V3 -12V 0.2(Peak 0.3)A | +5V 2.0(Peak 3.0)A<br>+15V 0.3(Peak 0.6)A<br>-15V 0.2(Peak 0.3)A |

## SPECIFICATIONS

|                                    |                                    |                                                                                    |                                                                                                  |                    |                    |                    |                    |                    |
|------------------------------------|------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                    | MODEL                              |                                                                                    | LDC15F-1                                                                                         |                    |                    | LDC15F-2           |                    |                    |
| INPUT                              | VOLTAGE[V]                         |                                                                                    | AC85 - 264 1ϕ 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℃ *2                                                                       | 100max                                                                                           | 120max             | 120max             | 100max             | 120max             | 120max             |
|                                    |                                    | -10 - 0℃ *2                                                                        | 140max                                                                                           | 160max             | 160max             | 140max             | 160max             | 160max             |
|                                    | RIPPLE NOISE[mVp-p]                | 0 to +50℃ *2                                                                       | 120max                                                                                           | 150max             | 150max             | 120max             | 150max             | 150max             |
|                                    |                                    | -10 - 0℃ *2                                                                        | 160max                                                                                           | 180max             | 180max             | 160max             | 180max             | 180max             |
|                                    | TEMPERATURE REGULATION[mV]         | 0 to +50℃                                                                          | 50max                                                                                            | 350max             | 350max             | 50max              | 350max             | 350max             |
|                                    |                                    | -10 to +50℃                                                                        | 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                                                                                     |                    |                    |                    |                    |                    |
|                                    | REMOTE ON/OFF                      |                                                                                    | Not provided                                                                                     |                    |                    |                    |                    |                    |
| 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)                    |                    |                    |                    |                    |                    |
|                                    | OUTPUT-OUTPUT(V1-V2,V3)            |                                                                                    | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                    |                    |                    |                    |                    |                    |
| ENVIRONMENT                        | OPERATING TEMP.,HUMID.AND ALTITUDE |                                                                                    | -10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)          |                    |                    |                    |                    |                    |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE   |                                                                                    | -20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet)                                    |                    |                    |                    |                    |                    |
|                                    | 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, 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).

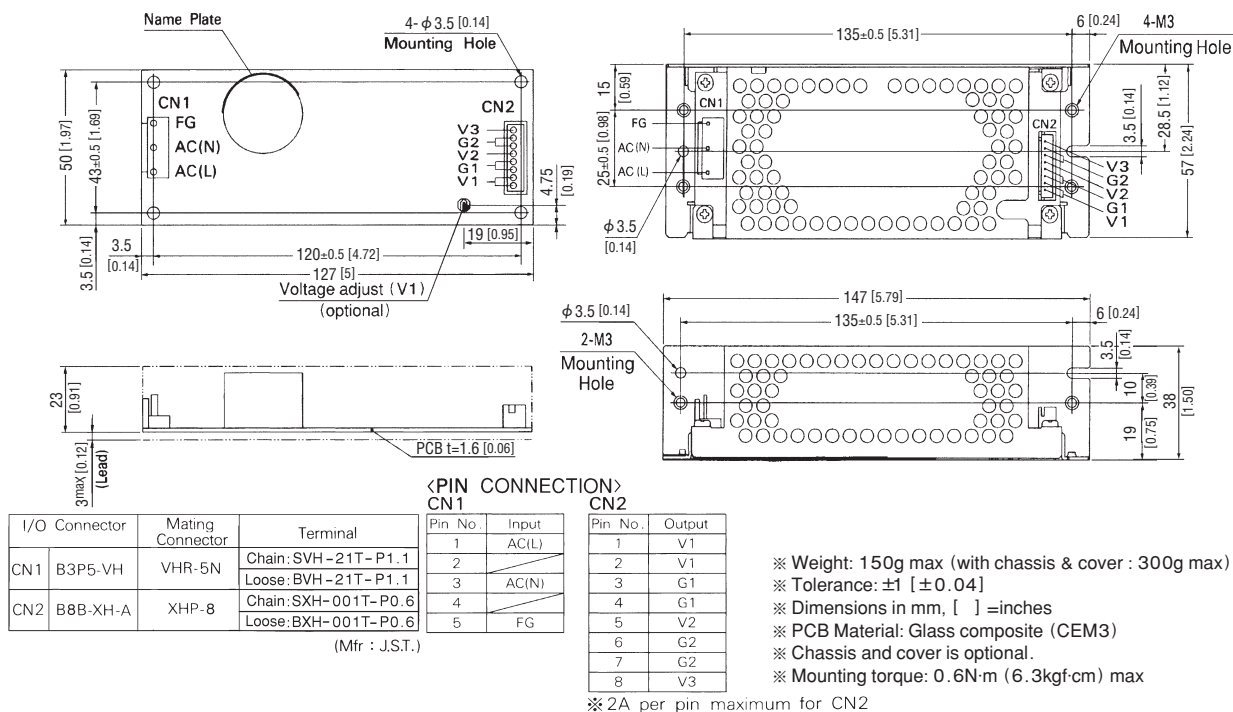
\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

\*4 Please contact us about safety approvals for the model with option.

\* Avoid prolonged use under over-load.

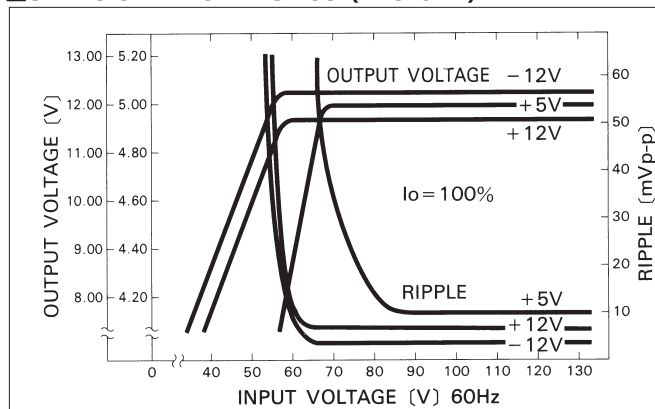
\* Derating is required when operated with chassis and cover.

## External view

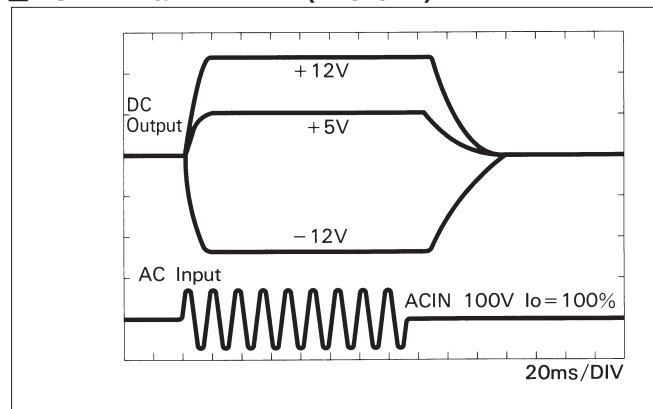


## Performance data

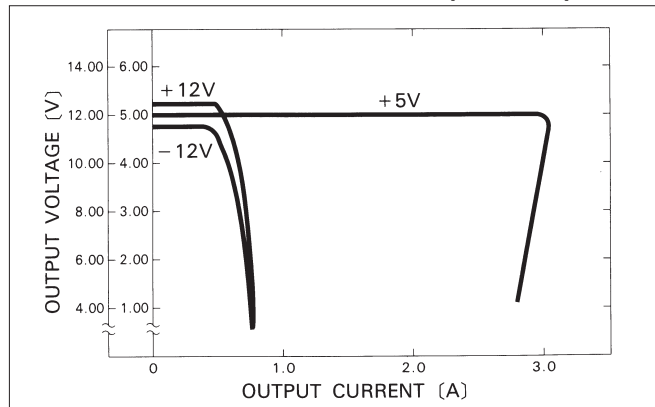
## ■ STATIC CHARACTERISTICS (LDC15F-1)



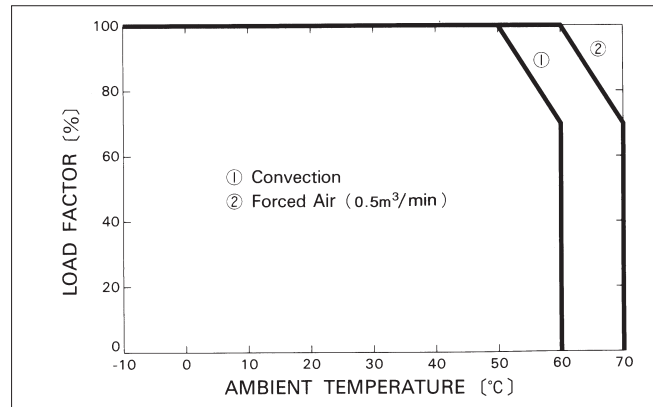
### ■ RISE TIME & FALL TIME (LDC15F-1)



## OVERCURRENT CHARACTERISTICS (LDC15F-1)



## DERATING CURVE



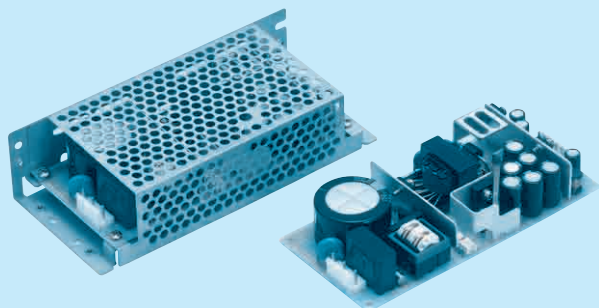
# LDC30F

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<br>V2 +12V 1.2(Peak 2.0)A<br>V3 -12V 0.3(Peak 0.45)A | +5V 3.0(Peak 4.5)A<br>+15V 1.0(Peak 2.0)A<br>-15V 0.3(Peak 0.45)A |

## SPECIFICATIONS

|                                    | MODEL                              | LDC30F-1     |                                                                                                      |                    | LDC30F-2            |                    |                    |                     |
|------------------------------------|------------------------------------|--------------|------------------------------------------------------------------------------------------------------|--------------------|---------------------|--------------------|--------------------|---------------------|
| INPUT                              | VOLTAGE[V]                         |              | AC85 - 264 1ϕ 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℃ *2 | 100max                                                                                               | 120max             | 120max              | 100max             | 120max             | 120max              |
|                                    |                                    | -10 - 0℃ *2  | 150max                                                                                               | 160max             | 160max              | 150max             | 160max             | 160max              |
|                                    | RIPPLE NOISE[mVp-p]                | 0 to +50℃ *2 | 120max                                                                                               | 150max             | 150max              | 120max             | 150max             | 150max              |
|                                    |                                    | -10 - 0℃ *2  | 170max                                                                                               | 180max             | 180max              | 170max             | 180max             | 180max              |
|                                    | TEMPERATURE REGULATION[mV]         | 0 to +50℃    | 50max                                                                                                | 350max             | 350max              | 50max              | 350max             | 350max              |
|                                    |                                    | -10 to +50℃  | 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                                                                                         |                    |                     |                    |                    |                     |
|                                    | REMOTE ON/OFF                      |              | Not provided                                                                                         |                    |                     |                    |                    |                     |
| 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)                        |                    |                     |                    |                    |                     |
|                                    | OUTPUT-OUTPUT(V1-V2,V3)            |              | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)                        |                    |                     |                    |                    |                     |
| ENVIRONMENT                        | OPERATING TEMP.,HUMID.AND ALTITUDE |              | -10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)              |                    |                     |                    |                    |                     |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE   |              | -20 to +75℃, 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          |                    |                     |                    |                    |                     |
|                                    | IMPACT                             |              | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis                                         |                    |                     |                    |                    |                     |
| SAFETY AND NOISE REGULATIONS       | 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).

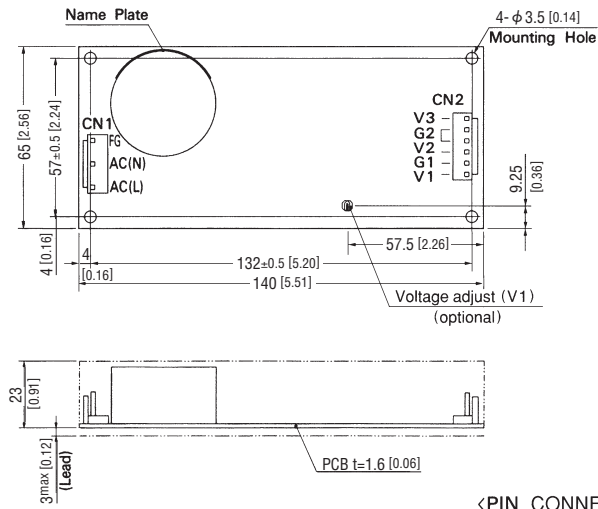
\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

\*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



| 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.)

&lt;PIN CONNECTION&gt;

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

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

※ Weight: 220g max (with chassis & cover : 400g max)

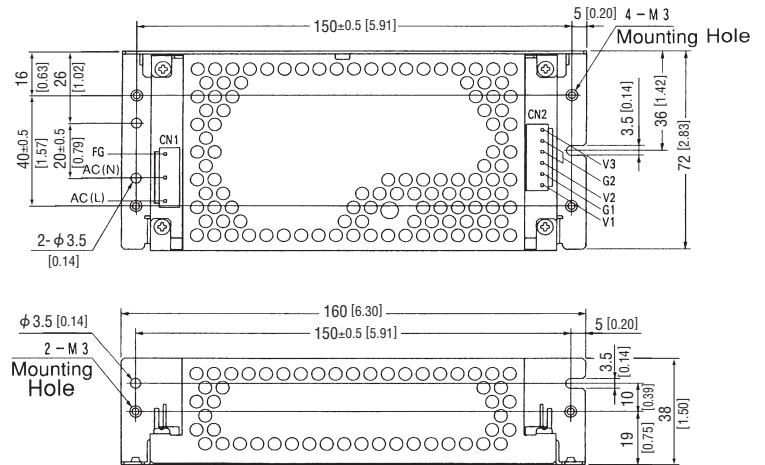
※ Tolerance:  $\pm 1$  [ $\pm 0.04$ ]

※ Dimensions in mm, [    ] =inches

※ PCB Material: Glass composite (CEM3)

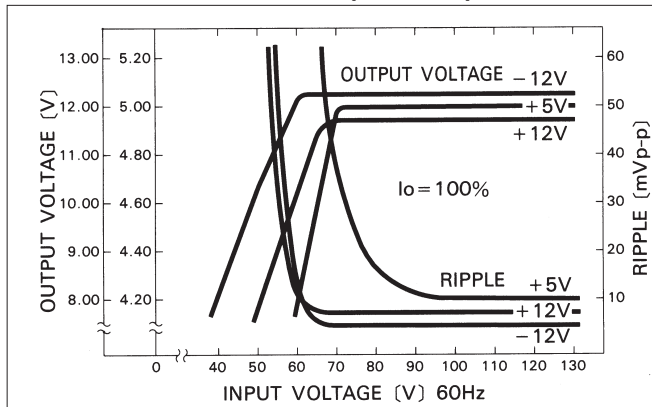
※ Chassis and cover is optional.

※ Mounting torque: 0.6N·m (6.3kgf·cm) max

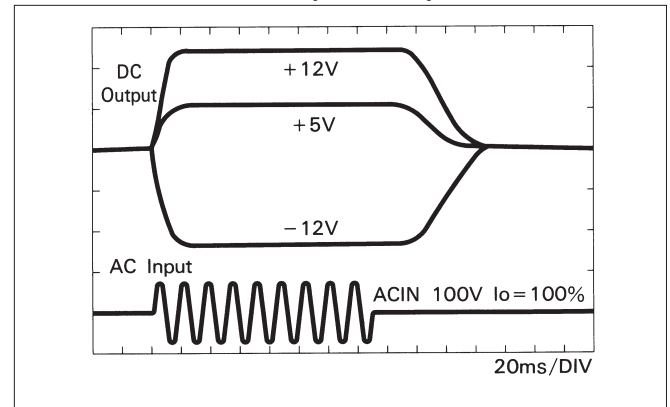


## Performance data

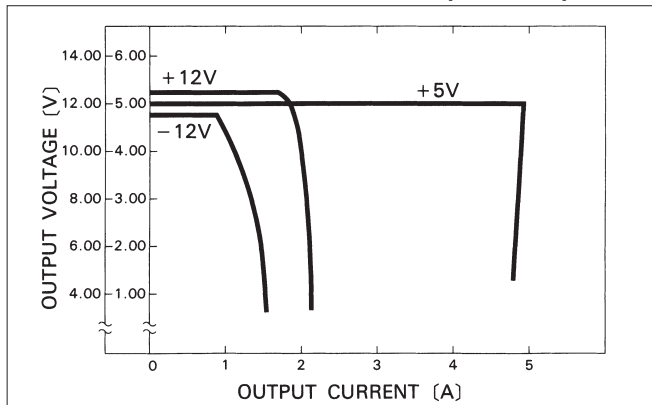
## ■ STATIC CHARACTERISTICS (LDC30F-1)



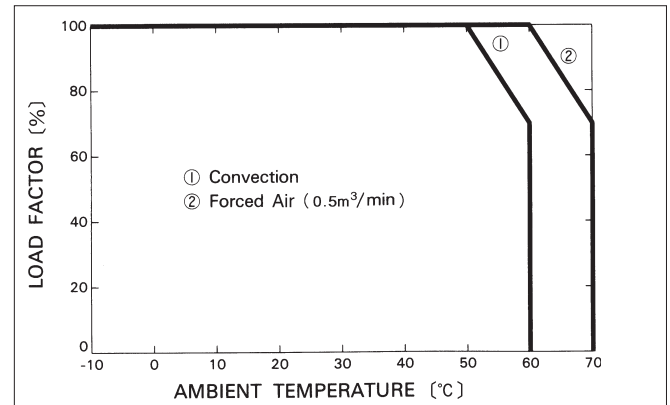
### ■RISE TIME & FALL TIME (LDC30F-1)



## OVERCURRENT CHARACTERISTICS (LDC30F-1)



## DERATING CURVE



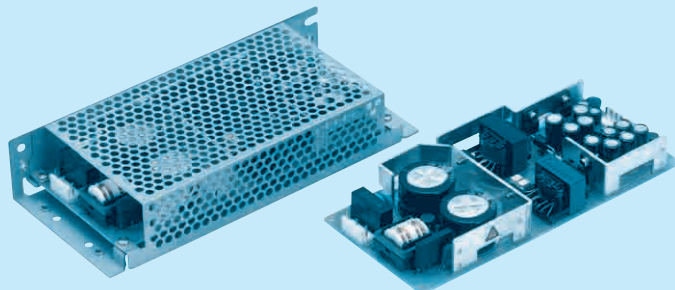
# LDC60F

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<br>V2 +12V 2.5(Peak 3.5)A<br>V3 -12V 0.5(Peak 0.7)A | +5V 5.0(Peak 7.0)A<br>+15V 2.0(Peak 3.5)A<br>-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℃ *2                                                                             | 100max                          | 120max             | 120max             | 100max             | 120max             | 120max |
|                                    |                                    | -10 - 0℃ *2                                                                              | 150max                          | 160max             | 160max             | 150max             | 160max             | 160max |
|                                    | RIPPLE NOISE[mVp-p]                | 0 to +50℃ *2                                                                             | 120max                          | 150max             | 150max             | 120max             | 150max             | 150max |
|                                    |                                    | -10 - 0℃ *2                                                                              | 170max                          | 180max             | 180max             | 170max             | 180max             | 180max |
|                                    | TEMPERATURE REGULATION[mV]         | 0 to +50℃                                                                                | 50max                           | 350max             | 350max             | 50max              | 350max             | 350max |
|                                    |                                    | -10 to +50℃                                                                              | 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                                                                             |                                 |                    |                    |                    |                    |        |
|                                    | REMOTE ON/OFF                      | Not provided                                                                             |                                 |                    |                    |                    |                    |        |
| 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)            |                                 |                    |                    |                    |                    |        |
|                                    | OUTPUT-OUTPUT(V1-V2,V3)            | AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)            |                                 |                    |                    |                    |                    |        |
| ENVIRONMENT                        | OPERATING TEMP.,HUMID.AND ALTITUDE | -10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet)  |                                 |                    |                    |                    |                    |        |
|                                    | STORAGE TEMP.,HUMID.AND ALTITUDE   | -20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet)                            |                                 |                    |                    |                    |                    |        |
|                                    | 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, 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                   | 83×26×185mm [3.27×1.02×7.28 inches] (W×H×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).

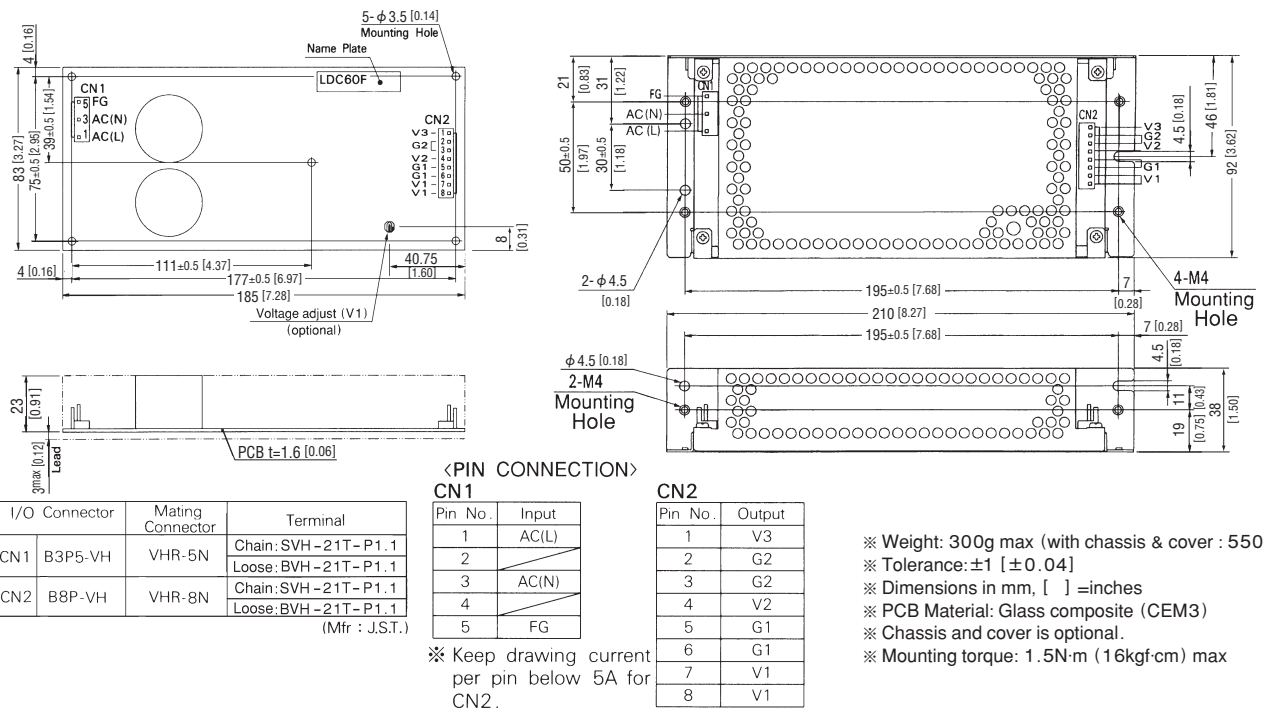
\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

\*4 Please contact us about safety approvals for the model with option.

\* Avoid prolonged use under over-load.

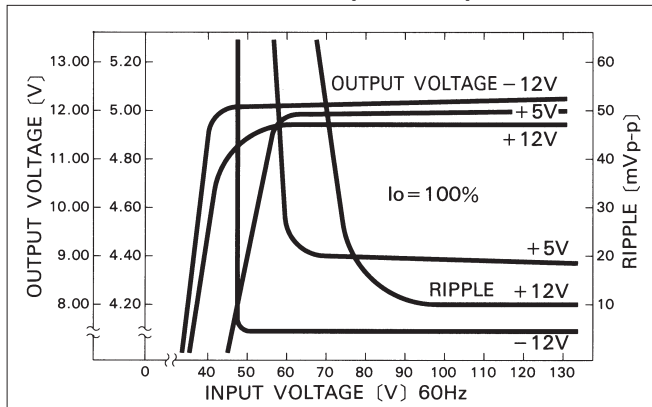
\* Derating is required when operated with chassis and cover.

## External view

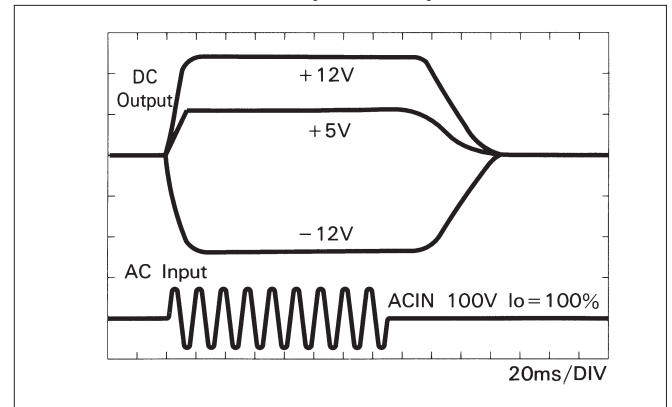


## Performance data

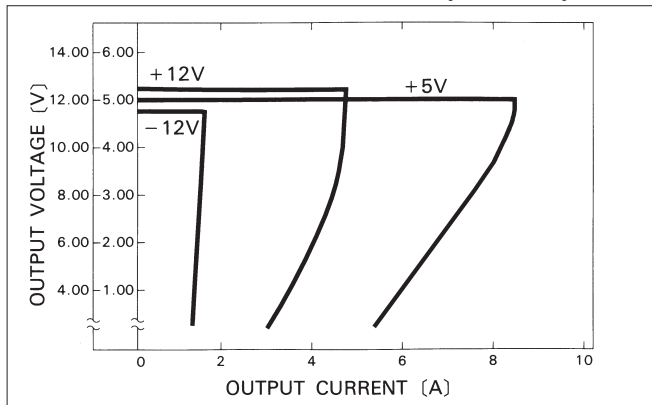
## ■ STATIC CHARACTERISTICS (LDC60F-1)



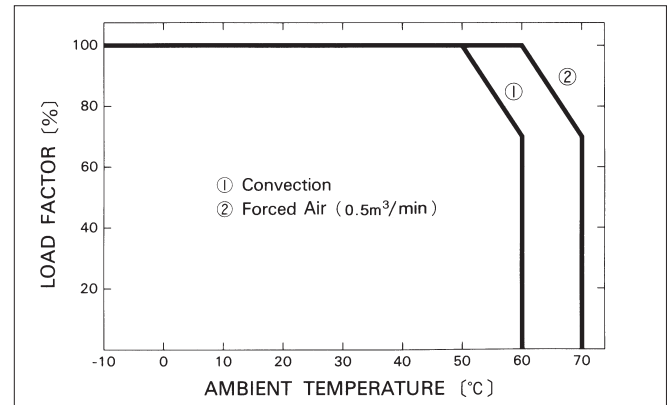
## ■ RISE TIME &amp; FALL TIME (LDC60F-1)



## ■ OVERCURRENT CHARACTERISTICS (LDC60F-1)



## ■ DERATING CURVE



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#### Как с нами связаться

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