ADA600F

ADA 600 F -24

ADA

c Sus Like CE **RoHS**





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

- ①Series name ②Output wattage
- 3 Universal input
- Output voltage
- ⑤Optional *7

 - G:Low leakage current
 E:Low leakage current
 and EMI class A
 - F :with Fan unit
 - T: Vertical terminal block
 - J :Connector type
- C :with Coating
 R :Remote ON/OFF
- N1:DIN rail
- W:Alarms and Redundant operation

Specification is changed at option,refer to Instruction Manual.

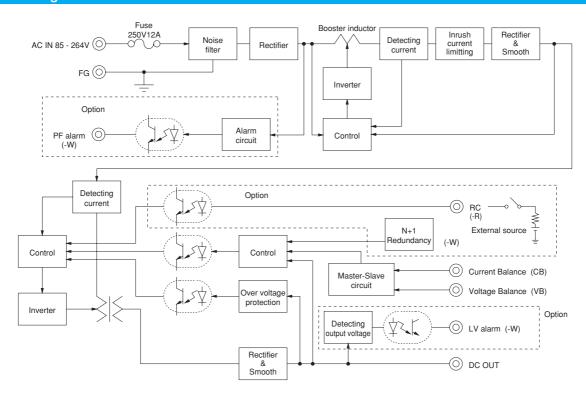
Please refer to derating curve, because the rated load current depends on cooling method that is convection cooling or forced air.

SPECIFICATIONS

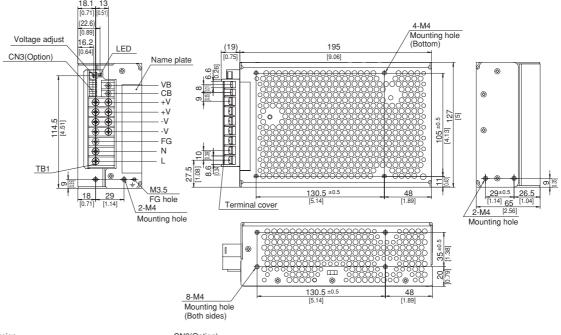
| | MODEL | | ADA600F-24 | ADA600F-30 | ADA600F-36 | ADA600F-48 | |
|----------------------|---------------------------------------|---------------|--|---------------------------------|-----------------------------------|---------------------------------|--|
| | VOLTAGE[V] | | AC85 - 264 1 φ or DC 120 - | 350 (AC64 or DC90 optiona | lly available *6) | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) or DC | | | | |
| | EEEIOIENOVIO/1 | ACIN 100V | 84typ (lo=100%) | 86typ (Io=100%) | 86typ (lo=100%) | 86typ (Io=100%) | |
| | EFFICIENCY[%] | ACIN 200V | 86typ (lo=100%) | 87typ (lo=100%) | 87typ (lo=100%) | 89typ (Io=100%) | |
| INPUT | | ACIN 100V | 0.99typ (lo=100%) | | | | |
| | POWER FACTOR | ACIN 200V | 0.98typ (lo=100%) | | | | |
| | INIDION CURRENTIA | ACIN 100V *1 | 20typ (lo=100%) (More than | 3sec.to re-start) | | | |
| | INRUSH CURRENT[A] | ACIN 200V * 1 | 40typ (lo=100%) (More than | 3sec.to re-start) | | | |
| | LEAKAGE CURREN | T[mA] | 0.75max (60Hz, According to | o IEC60950 and DEN-AN) (Id | o=100%) | | |
| | VOLTAGE[V] | | 24 | 30 | 36 | 48 | |
| | | ACIN 100V *2 | 14 (Peak 25) convection | 11 (Peak 20) convection | 9 (Peak 16.5) convection | 6.5 (Peak 12.5) convection | |
| | | ACIN 100V *2 | 21 (Peak 25) forced air | 16.5 (Peak 20) forced air | 14 (Peak 16.5) forced air | 10.5 (Peak 12.5) forced air | |
| | CURRENT[A] | ACIN 200V *2 | 15 (Peak 31) convection | 12 (Peak 24.5) convection | 10 (Peak 20.5) convection | 7 (Peak 15.5) convection | |
| | | ACIN 200V *2 | 25 (Peak 31) forced air | 20 (Peak 24.5) forced air | 16.5 (Peak 20.5) forced air | 12.5 (Peak 15.5) forced air | |
| | LINE REGULATION[| mV] | 96max | 120max | 144max | 192max | |
| | LOAD REGULATION | [mV] | 150max | 180max | 240max | 300max | |
| | DIDDI FIV1 | 0 to +50°C *3 | 120max | 160max | 200max | 200max | |
| OUTPUT | RIPPLE[mVp-p] | -10 - 0℃ *3 | 160max | 230max | 260max | 300max | |
| | DIDDLE MOIOEC-V1 | 0 to +50°C *3 | 150max | 190max | 230max | 250max | |
| | RIPPLE NOISE[mVp-p] | -10 - 0℃ *3 | 180max | 250max | 280max | 400max | |
| | TEMPERATURE REGULATION[mV] 0 to +50°C | | 240max | 300max | 360max | 480max | |
| | DRIFT[mV] | *4 | 96max | 120max | 144max | 192max | |
| | START-UP TIME[ms] | | 500max (ACIN 100V, Io=100%) | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, Io=100% | s) | | | |
| | OUTPUT VOLTAGE ADJUSTMENT | T RANGE[V] | 21.6 - 27.0 | 27.0 - 33.0 | 33.0 - 41.0 | 41.0 - 52.8 | |
| | OUTPUT VOLTAGE SET | TING[V] | 23.5 - 24.5 | 29.0 - 31.0 | 35.0 - 37.0 | 47.0 - 49.0 | |
| | OVERCURRENT PROT | ECTION | Works over 101% of peak of | urrent and recovers automatic | ally | | |
| PROTECTION | OVERVOLTAGE PROTEC | TION[V] | 31 - 34.5 | 40 - 48 | 51 - 60 | 64 - 76 | |
| | OPERATING INDICA | TION | LED (Green) | | | | |
| OTHERS | ALARM OUTPUT | | Detecting low input voltage(| PF), detecting low output volt | age(LV). (Optional : -W, refer | to Instruction Manual 5) | |
| | REMOTE ON/OFF(R | - | | urce (Option : -R, refer to Ins | <u> </u> | | |
| | INPUT-OUTPUT · RO | *5 | | | Ω min (At Room Temperature | | |
| ISOLATION | INPUT-FG | | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) | | | | |
| | OUTPUT · RC-FG | *5 | AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature) | | | | |
| | OPERATING TEMP.,HUMID.AND | | | | ERATING CURVE), 3,000m (1 | 0,000feet) max | |
| ENVIRONMENT | STORAGE TEMP.,HUMID.AND | ALTITUDE | 0 | | | | |
| | VIBRATION | | | minutes period, 60minutes ea | ich along X, Y and Z axis | | |
| | IMPACT | _ | 196.1m/s² (20G), 11ms, onc | | | | |
| SAFETY AND | AGENCY APPROVAL | LS | · | • | 178 Complies with DEN-AN and | I IEC60950-1 (At only AC input) | |
| NOISE REGULATIONS | CONDUCTED NOISE | | | R22-B, EN55022-B, VCCI-B | | | |
| negulation5 | HARMONIC ATTENU | | Complies with IEC61000-3-2 | | | | |
| OTHERS | CASE SIZE/WEIGHT | | | ×7.68 inches] (W×H×D) (wi | thout terminal block) /1.5kg m | ax | |
| | COOLING METHOD | | Convection/Forced air | | | | |

- ${\color{red} *1}$ The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
- *4 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.
- *5 Applicable when remote control (optional) is added.
 *6 Derating is required.Consult us for details.
- *7 Please contact us about safety approvals for the model with option.
- A sound may occur from power supply at pulse loading.

Block diagram



External view



| ※ Pin assigr |
|--------------|
| |

| Symbol | Function | Screw type |
|--------|--------------------|------------|
| VB | Voltage balance | M3 |
| CB | Current balance | IVIO |
| +V | Output terminal(+) | |
| +V | Output terminal(+) | |
| -V | Output terminal(-) | M4 |
| -V | Output terminal(-) | IVI+ |
| FG | Frame ground | |
| N | AC(N) | |
| L | AC(L) | |
| | | |

| Œ | ₽ | | |
|----|----|---|--------|
| 2 | 1 | | |
| 4 | 3 | | |
| 6 | 5 | | |
| 8 | 7 | _ | _/ |
| 10 | 9 | | > |
| 12 | 11 | _ | \neg |
| 14 | 13 | | |
| J | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | CN3(Option) | | | | | |
|-------------------|--------|-------------|-----|-----------------------|--|--|--|
| ⊕ ∥ | | Pin No. | | Function | | | |
| 2 1 | | 1 | RC+ | : Remote ON/OFF+(-R) | | | |
| 4 3 1 | | 2 | RC- | : Remote ON/OFF-(-R) | | | |
| 6 5 8 7 0 9 | _/ | 3-8 | NC | : N.C. | | | |
| 2 11 4 13 | \neg | 9 | LV+ | : LV Alarm(-W) | | | |
| 4 [13] | | 10 | LV- | : LV Alarm ground(-W) | | | |
| | | 11-12 | NC | : N.C. | | | |
| | | 13 | PF+ | : PF Alarm(-W) | | | |
| | | 14 | PF- | : PF Alarm ground(-W) | | | |
| | | | | | | | |

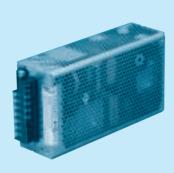


Average 21A max per pin for TB1

[#] Tolerance : ±1 [±0.04]
Weight : 1.5kg max
PDB material / thickness : FR-4 / 1.6mm [0.06]
Chassis and cover material : aluminium
Dimensions in mm, []= inches
Mounting torque : 1.2N - m(12.8kgf • cm) max
Screw lighting torque
4 : 1.6N - m(16.8kgf • cm) max, M3 : 0.8N • m(8.5kgf • cm) max
1/0 terminal for option-J and -T is shown in Instruction Manual 5.

ADA

c Sus Like CE **RoHS**





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

- ①Series name ②Output wattage
- 3 Universal input
- Output voltage
- ⑤Optional *7

 - G:Low leakage current
 E:Low leakage current
 and EMI class A
 - F :with Fan unit
 - T: Vertical terminal block
- J :Connector type
- C :with Coating
 R :Remote ON/OFF
- N1:DIN rail
- W:Alarms and Redundant operation

Specification is changed at option,refer to Instruction Manual.

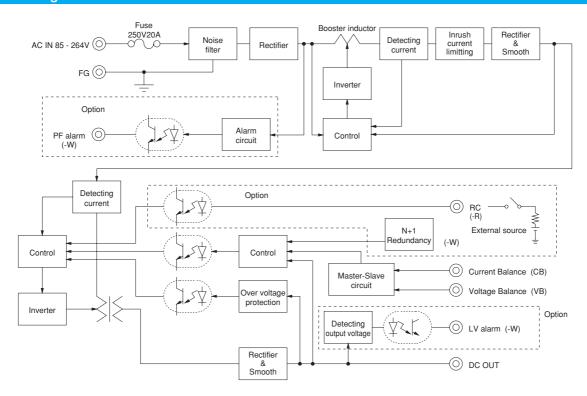
Please refer to derating curve, because the rated load current depends on cooling method that is convection cooling or forced air.

SPECIFICATIONS

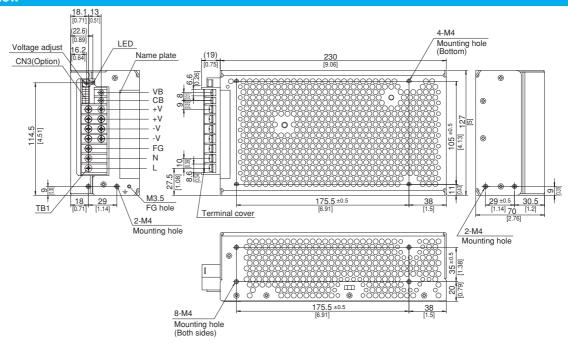
| | MODEL | | ADA750F-24 | ADA750F-30 | ADA750F-36 | ADA750F-48 | |
|-------------|----------------------------|---------------|---|---|---|--------------------------------|--|
| | VOLTAGE[V] | | AC85 - 264 1 φ or DC 120 - | 350 (AC64 or DC90 optional | ly available *6) | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) or DC | | | | |
| | EFFICIENCY[0/] | ACIN 100V | 86typ (lo=100%) | 86typ (Io=100%) | 87typ (Io=100%) | 87typ (lo=100%) | |
| | EFFICIENCY[%] | ACIN 200V | 88typ (lo=100%) | 88typ (lo=100%) | 89typ (lo=100%) | 89typ (lo=100%) | |
| INPUT | | ACIN 100V | 0.99typ (lo=100%) | , | , | | |
| | POWER FACTOR | ACIN 200V | 0.98typ (lo=100%) | | | | |
| | INDUCTION OF BEHAVIOR | ACIN 100V *1 | 20typ (lo=100%) (More than | 3sec.to re-start) | | | |
| | INRUSH CURRENT[A] | ACIN 200V *1 | 40typ (lo=100%) (More than 3sec.to re-start) | | | | |
| | LEAKAGE CURREN | T[mA] | 0.75max (60Hz, According to | o IEC60950 and DEN-AN) (lo | =100%) | | |
| | VOLTAGE[V] | | 24 | 30 | 36 | 48 | |
| | | ACIN 100V *2 | 17 (Peak 42) convection | 13.5 (Peak 33.5) convection | 11 (Peak 28) convection | 8 (Peak 21) convection | |
| | | ACIN 100V *2 | 25 (Peak 42) forced air | 20 (Peak 33.5) forced air | 16.5 (Peak 28) forced air | 12.5 (Peak 21) forced air | |
| | CURRENT[A] | ACIN 200V *2 | 19 (Peak 63) convection | 15 (Peak 50) convection | 12.5 (Peak 42) convection | 9 (Peak 31.5) convection | |
| | | ACIN 200V *2 | 31.5 (Peak 63) forced air | 24.5 (Peak 50) forced air | 20.5 (Peak 42) forced air | 15.5 (Peak 31.5) forced air | |
| | LINE REGULATION[| mV] | 96max | 120max | 144max | 192max | |
| | LOAD REGULATION | I[mV] | 150max | 180max | 240max | 300max | |
| | | 0 to +50°C *3 | 120max | 160max | 200max | 200max | |
| OUTPUT | RIPPLE[mVp-p] | -10 - 0℃ *3 | 160max | 230max | 260max | 300max | |
| | | 0 to +50°C *3 | 150max | 190max | 230max | 250max | |
| | RIPPLE NOISE[mVp-p] | -10 - 0℃ *3 | 180max | 250max | 280max | 400max | |
| | TEMPERATURE REGULATION[mV] | 0 to +50℃ | 240max | 300max | 360max | 480max | |
| | DRIFT[mV] | *4 | 96max | 120max | 144max | 192max | |
| | START-UP TIME[ms] | | 500max (ACIN 100V, Io=100%) | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, lo=100% | .) | | | |
| | OUTPUT VOLTAGE ADJUSTMENT | T RANGE[V] | 21.6 - 27.0 | 27.0 - 33.0 | 33.0 - 41.0 | 41.0 - 52.8 | |
| | OUTPUT VOLTAGE SET | TING[V] | 23.5 - 24.5 | 29.0 - 31.0 | 35.0 - 37.0 | 47.0 - 49.0 | |
| | OVERCURRENT PROT | ECTION | Works over 101% of peak cu | urrent and recovers automatic | ally | | |
| PROTECTION | OVERVOLTAGE PROTEC | CTION[V] | 31 - 34.5 | 40 - 48 | 51 - 60 | 64 - 76 | |
| CIRCUIT AND | OPERATING INDICA | TION | LED (Green) | | | | |
| OTHERS | ALARM OUTPUT | | Detecting low input voltage(F | PF), detecting low output volta | age(LV). (Optional : -W, refer | to Instruction Manual 5) | |
| | REMOTE ON/OFF(R | C) | Requirement for external sou | urce (Option : -R, refer to Inst | ruction Manual 5) | | |
| | INPUT-OUTPUT · RO | *5 | AC3,000V 1minute, Cutoff co | urrent = 10mA, DC500V 50M | Ω min (At Room Temperature | e) | |
| ISOLATION | INPUT-FG | | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) | | | | |
| | OUTPUT · RC-FG | *5 | AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature) | | | | |
| | OPERATING TEMP.,HUMID.AND | ALTITUDE | -10 to +71℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max | | | | |
| ENVIRONMENT | STORAGE TEMP.,HUMID.AND | ALTITUDE | -20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max | | | | |
| ENVIRONMENT | VIBRATION | | 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis | | | | |
| | IMPACT | | 196.1m/s ² (20G), 11ms, onc | e each X, Y and Z axis | | | |
| SAFETY AND | AGENCY APPROVAL | LS | UL60950-1, C-UL(CSA60950-1 |), EN60950-1, EN60065, EN50 | 178 Complies with DEN-AN and | I IEC60950-1 (At only AC input | |
| NOISE | CONDUCTED NOISE | . | Complies with FCC-B, CISP | R22-B, EN55022-B, VCCI-B | | | |
| REGULATIONS | HARMONIC ATTENU | JATOR | Complies with IEC61000-3-2 | | | | |
| OTHERS | CASE SIZE/WEIGHT | | 70 x 127 x 230mm [2.76 x 5 > | <9.06 inches] (WxHxD) (with the control of the c | hout terminal block) /1.9kg m | ax | |
| CITERS | COOLING METHOD | | Convection/Forced air | | | | |

- $\textcolor{red}{*1} \ \, \text{The value is primary surge.The current of input surge to a built-in EMI/EMC Filter (0.2ms or a built-in EMI/EMC Filter$ less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
- *4 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.
- *5 Applicable when remote control (optional) is added.
 *6 Derating is required. Consult us for details.
- *7 Please contact us about safety approvals for the model with option.
- A sound may occur from power supply at pulse loading.

Block diagram



External view



* Pin assign

| Symbol | Function | Screw type |
|--------|--------------------|------------|
| VB | Voltage balance | 140 |
| CB | Current balance | M3 |
| +V | Output terminal(+) | |
| +V | Output terminal(+) | |
| -V | Output terminal(-) | M4 |
| -V | Output terminal(-) | IVI4 |
| FG | Frame ground | |
| N | AC(N) | |
| L | AC(L) | |

| ir an | 0.10(Opt. | 0, | |
|-------|-----------|-----|-----------------------|
| | Pin No. | | Function |
| 2 1 | 1 | RC+ | : Remote ON/OFF+(-R) |
| 6 5 | 2 | RC- | : Remote ON/OFF-(-R) |
| 10 9 | 3-8 | NC | : N.C. |
| 12 11 | 9 | LV+ | : LV Alarm(-W) |
| Ш | 10 | LV- | : LV Alarm ground(-W) |
| | 11-12 | NC | : N.C. |
| | 13 | PF+ | : PF Alarm(-W) |
| | 14 | PF- | : PF Alarm ground(-W) |

CN3(Option)

П.....

| | Connector | IMating connector | Terminal | IVITT. |
|------|-----------------|-------------------|--|--------|
| | | | Chain:SPHD-002T-P0.5 | |
| CN3 | S14B-PHDSS | PHDR-14VS | Loose:BPHD-001T-P0.5 BPHD-002T-P0.5*1 | J.S.T |
| *1 F | latchet Hand is | nothing | | |

- # Tolerance : ±1 [±0.04]
 # Weight : 1.9kg max
 # PCB material / thickness : FR-4 / 1.6mm [0.06]
 # Chassis and cover material : aluminium
 # Dimensions in mm, []= inches
 # Mounting torque : 1.2h "(12.8kgf cm) max
 # Screw tighting torque
 # 4 : 1.6h "(16.9kgf cm) max, M3 : 0.8h m(8.5kgf cm) max
 # / 100 terminal for option-J and -T is shown in Instruction Manual 5.

Average 21A max per pin for TB1

ADA

c Su's Live Rheinland C E **RoHS**





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

- ①Series name ②Output wattage
- 3 Universal input Output voltage
- ⑤Optional *7
 - G:Low leakage current
 - E :Low leakage current and EMI class A
 - F :with Fan unit
 - T: Vertical terminal block
- J :Connector type
- C :with Coating
 R :Remote ON/OFF
- N1:DIN rail
- W:Alarms and Redundant operation

Specification is changed at option,refer to Instruction Manual.

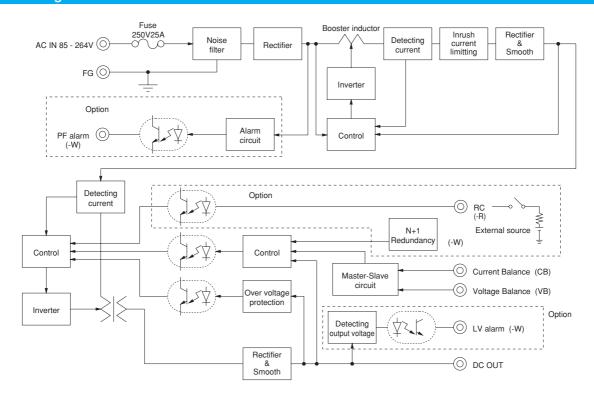
Please refer to derating curve, because the rated load current depends on cooling method that is convection cooling or forced air.

SPECIFICATIONS

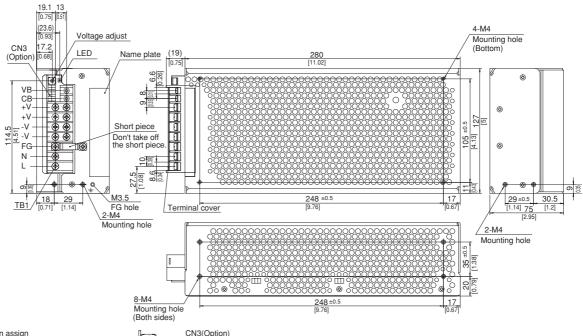
| | MODEL | | ADA1000F-24 | ADA1000F-30 | ADA1000F-36 | ADA1000F-48 | | | |
|--------------------|----------------------------|---------------|---|---|---------------------------------------|---------------------------------|--|--|--|
| | VOLTAGE[V] | | AC85 - 264 1 φ or DC 120 | - 350 (AC64 or DC90 optiona | lly available *6) | | | | |
| | FREQUENCY[Hz] | | 50/60 (47 - 63) or DC | | | | | | |
| | EEEIOIENOVIO/1 | ACIN 100V | 86typ (lo=100%) | 86typ (lo=100%) | 87typ (lo=100%) | 87typ (lo=100%) | | | |
| | EFFICIENCY[%] | ACIN 200V | 88typ (Io=100%) | 88typ (lo=100%) | 89typ (lo=100%) | 89typ (Io=100%) | | | |
| INPUT | POWER FACTOR | ACIN 100V | 0.99typ (lo=100%) | | | | | | |
| | POWER FACTOR | ACIN 200V | 0.98typ (lo=100%) | | | | | | |
| | INRUSH CURRENT[A] | ACIN 100V *1 | | Otyp (Io=100%) (More than 3sec.to re-start) | | | | | |
| | INRUSH CURRENT[A] | ACIN 200V *1 | 40typ (lo=100%) (More than | 3sec.to re-start) | | | | | |
| | LEAKAGE CURREN | T[mA] | 0.75max (60Hz, According t | to IEC60950 and DEN-AN) (Id | o=100%) | | | | |
| | VOLTAGE[V] | | 24 | 30 | 36 | 48 | | | |
| | | ACIN 100V *2 | 21 (Peak 63) convection | 16.5 (Peak 50) convection | 14 (Peak 42) convection | 10.5 (Peak 31.5) convection | | | |
| | CUDDENTIAL | ACIN 100V *2 | 33 (Peak 63) forced air | 26 (Peak 50) forced air | 22 (Peak 42) forced air | 16.5 (Peak 31.5) forced air | | | |
| | CURRENT[A] | ACIN 200V *2 | 25 (Peak 83) convection | 20 (Peak 66) convection | 16.5 (Peak 55) convection | 11.5 (Peak 41.5) convection | | | |
| | | ACIN 200V *2 | 42 (Peak 83) forced air | 33.5 (Peak 66) forced air | 28 (Peak 55) forced air | 21 (Peak 41.5) forced air | | | |
| | LINE REGULATION[| mV] | 96max | 120max | 144max | 192max | | | |
| | LOAD REGULATION | [mV] | 150max | 180max | 240max | 300max | | | |
| | DIDDI Elm\/n n1 | 0 to +50℃ *3 | 120max | 160max | 200max | 200max | | | |
| OUTPUT | RIPPLE[mVp-p] | -10 - 0℃ *3 | 160max | 230max | 260max | 300max | | | |
| | DIDDLE NOICEIMVa al | 0 to +50°C *3 | 150max | 190max | 230max | 250max | | | |
| | RIPPLE NOISE[mVp-p] | | 180max | 250max | 280max | 400max | | | |
| | TEMPERATURE REGULATION[mV] | 0 to +50℃ | 240max | 300max | 360max | 480max | | | |
| | DRIFT[mV] *4 | | 96max | 120max | 144max | 192max | | | |
| | START-UP TIME[ms] | | 500max (ACIN 100V, Io=100%) | | | | | | |
| | HOLD-UP TIME[ms] | | 20typ (ACIN 100V, Io=100% | (a) | | | | | |
| | OUTPUT VOLTAGE ADJUSTMENT | T RANGE[V] | 21.6 - 27.0 | 27.0 - 33.0 | 33.0 - 41.0 | 41.0 - 52.8 | | | |
| | OUTPUT VOLTAGE SET | TING[V] | 23.5 - 24.5 | 29.0 - 31.0 | 35.0 - 37.0 | 47 - 49 | | | |
| | OVERCURRENT PROT | ECTION | Works over 101% of peak of | urrent and recovers automatic | cally | | | | |
| PROTECTION | OVERVOLTAGE PROTEC | TION[V] | 31 - 34.5 | 40 - 48 | 51 - 60 | 64 - 76 | | | |
| CIRCUIT AND | OPERATING INDICA | TION | LED (Green) | | | | | | |
| OTHERS | ALARM OUTPUT | | Detecting low input voltage(| PF), detecting low output voltage | age(LV). (Optional : -W, refer | to Instruction Manual 5) | | | |
| | REMOTE ON/OFF(R | C) | | urce (Option : -R, refer to Ins | · · · · · · · · · · · · · · · · · · · | | | | |
| | INPUT-OUTPUT · RO | *5 | | current = 10mA, DC500V 50M | | | | | |
| ISOLATION | INPUT-FG | | AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) | | | | | | |
| | OUTPUT · RC-FG | | Treese Trimitate, eaten earlest Teems, Deede Teems, It Trees Temperature, | | | | | | |
| | | | -10 to +71℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max | | | | | | |
| ENVIRONMENT | STORAGE TEMP.,HUMID.AND | ALTITUDE | · · | | | | | | |
| LITTION | VIBRATION | | | minutes period, 60minutes ea | ach along X, Y and Z axis | | | | |
| | IMPACT | | 196.1m/s ² (20G), 11ms, one | | | | | | |
| SAFETY AND | | | UL60950-1, C-UL(CSA60950- | 1), EN60950-1, EN60065, EN50 | 178 Complies with DEN-AN and | d IEC60950-1 (At only AC input) | | | |
| NOISE | CONDUCTED NOISE | | <u> </u> | PR22-B, EN55022-B, VCCI-B | | | | | |
| REGULATIONS | HARMONIC ATTENU | JATOR | Complies with IEC61000-3-2 | 2 | | | | | |
| OTHERS | CASE SIZE/WEIGHT | | 75×127×280mm [2.95×5] | ×11.02 inches] (W×H×D) (w | vithout terminal block) /2.5kg | max | | | |
| OTTLING. | COOLING METHOD | | Convection/Forced air | | | | | | |

- *1 The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
- Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
- *3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).
- *4 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.
- *5 Applicable when remote control (optional) is added.
 *6 Derating is required.Consult us for details.
- *7 Please contact us about safety approvals for the model with option.
- A sound may occur from power supply at pulse loading.

Block diagram



External view



| * | Pin | assign |
|---|-----|--------|

| Symbol | Function | Screw type |
|-----------|-----------------------|------------|
| VB | Voltage balance | M3 |
| CB | Current balance | IVIS |
| +V | Output terminal(+) | |
| +V | Output terminal(+) | |
| -V | Output terminal(-) | M4 |
| -V | Output terminal(-) | IVI4 |
| FG | Frame ground | |
| N | AC(N) | |
| L | AC(L) | |
| Average 2 | 1A max per pin for TB | 1 |

| | ran . | CN3(Op | tion) |
|---|-------------|---------|---------------------------|
| | | Pin No. | Function |
| | 2 1 | 1 | RC+ : Remote ON/OFF+(-R) |
| | 6 5 | 2 | RC- : Remote ON/OFF-(-R) |
| | 10 9 | 3-8 | NC : N.C. |
| | 12 11 14 13 | 9 | LV+ : LV Alarm(-W) |
| L | ı | 10 | LV- : LV Alarm ground(-W) |
| | | 11-12 | NC : N.C. |
| | | 13 | PF+ : PF Alarm(-W) |
| | | 14 | PF- : PF Alarm ground(-W) |
| | | | |

| | Connector | Mating connector | Terminal | Mfr. |
|------|--------------|------------------|--|-------|
| | 3 S14B-PHDSS | | Chain:SPHD-002T-P0.5 | |
| CN3 | | | Loose:BPHD-001T-P0.5 BPHD-002T-P0.5*1 | J.S.T |
| *1 B | | | | |

[#] Tolerance : ±1 [±0.04]
Weight : 2.5kg max
PCB material / thickness : FR-4 / 1.6mm [0.06]
PCB material / thickness : FR-4 / 1.6mm [0.06]
Dimensions in mm, []= inches
Mounting torque : 1.2.N • r(12.8kgf • cm) max
Screw lighting torque
1.1.8N • r(16.9kgf • cm) max , M3 : 0.8N • m(8.5kgf • cm) max
/ 1.6N • r(16.9kgf • cm) max , M3 : 0.8N • m(8.5kgf • cm) max
/ 10 terminal for option-J and -T is shown in Instruction Manual 5.