



Features:

- 2:1 wide input range
- Protections:Short circuit/Over load/Over voltage/Over temperature
- 1500VDC I/O isolation
- Forced air cooling by built-in DC Fan
- 100% full load burn-in test
- 24V and 48V input voltage design refer to LVD
- 2 years warranty

SPECIFICATION

(for 24V and 48V input type)

| MODEL | | SD-350B | | | | SD-350C | | | | | |
|-----------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------|--------------|------------|--------------|------------|--|--|
| ОИТРИТ | DC VOLTAGE | 5V | 12V | 24V | 48V | 5V | 12V | 24V | 48V | | |
| | RATED CURRENT | 57A | 27.5A | 14.6A | 7.3A | 60A | 27.5A | 14.6A | 7.3A | | |
| | CURRENT RANGE | 0 ~ 57A | 0 ~ 27.5A | 0 ~ 14.6A | 0 ~ 7.3A | 0 ~ 60A | 0 ~ 27.5A | 0 ~ 14.6A | 0~7.3A | | |
| | RATED POWER | 285W | 330W | 350.4W | 350.4W | 300W | 330W | 350.4W | 350.4W | | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | 100mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | | |
| | VOLTAGE ADJ. RANGE | 4.5 ~ 5.5VDC | 11 ~ 16VDC | 23 ~ 30VDC | 43 ~ 53VDC | 4.5 ~ 5.5VDC | 11 ~ 16VDC | 23 ~ 30VDC | 43 ~ 53VDC | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±1.0% | ±1.0% | ±1.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% | | |
| | LINE REGULATION | ±0.5% | ±0.3% | ±0.2% | ±0.2% | ±0.5% | ±0.3% | ±0.2% | ±0.2% | | |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±1.0% | | |
| | SETUP, RISE TIME | 300ms, 50ms at full load | | | | | | | | | |
| INPUT | VOLTAGE RANGE | B:19 ~ 36VDC | | | | | | | | | |
| | EFFICIENCY (Typ.) | 74% | 80% | 80% | 84% | 76% | 81% | 81% | 82% | | |
| | DC CURRENT (Typ.) | 14.4A/24V | 16A/24V | 17.6A/24V | 17.6A/24V | 7.6A/48V | 8.8A/48V | 8.6A/48V | 8.6A/48V | | |
| | INRUSH CURRENT (Typ.) | C:45A/48VDC D:45A/96VDC | | | | | | | | | |
| | OVER LOAD | 105 ~ 135% rated output power | | | | | | | | | |
| PROTECTION | | Protection type: Shut down o/p voltage, re-power on to recover | | | | | | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V | 16.8 ~ 20V | 31.5 ~ 37.5V | 53 ~ 65V | 5.75 ~ 6.75V | 16.8 ~ 20V | 31.5 ~ 37.5V | 53 ~ 65V | | |
| | | Protection type: Shut down o/p voltage, re-power on to recover | | | | | | | | | |
| | OVER TEMPERATURE | 95°C ±5°C (TSW1) Detect on main power transistor | | | | | | | | | |
| | | Protection type: Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60 $^{\circ}$ C (Refer to output load derating curve) | | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | | |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | | | |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS | 24V and 48V input design refer to LVD | | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | | | | | | | | | |
| | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B | | | | | | | | | |
| | EMS IMMUNITY | Compliance to EN61000-4-2,3,4,6,8; ENV50204 heavy industry level, criteria A | | | | | | | | | |
| OTHERS | MTBF | 209.4K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | | |
| | DIMENSION | 215*115*50mm (L*W*H) | | | | | | | | | |
| | PACKING | 1.1Kg; 12pcs/14.4Kg/0.92CUFT | | | | | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up | IOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. re measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. des set up tolerance, line regulation and load regulation. It is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets | | | | | | | | | |





Features:

- 2:1 wide input range
- Protections:Short circuit/Over load/Over voltage/Over temperature
- 1500VDC I/O isolation
- Forced air cooling by built-in DC Fan
- 100% full load burn-in test
- 24V(B) and 48V(C) input voltage design refer to LVD
- 2 years warranty

SPECIFICATION

| MODEL | | SD-350D | | | | | | | | |
|-----------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|------------|--|--|--|--|--|
| ОИТРИТ | DC VOLTAGE | 5V | 12V | 24V | 48V | | | | | |
| | RATED CURRENT | 60A | 29.2A | 14.6A | 7.3A | | | | | |
| | CURRENT RANGE | 0 ~ 60A | 0 ~ 29.2A | 0 ~ 14.6A | 0 ~ 7.3A | | | | | |
| | RATED POWER | 300W | 350.4W | 350.4W | 350.4W | | | | | |
| | RIPPLE & NOISE (max.) Note.2 | 100mVp-p | 120mVp-p | 150mVp-p | 200mVp-p | | | | | |
| | VOLTAGE ADJ. RANGE | 4.5 ~ 5.5VDC | 11 ~ 16VDC | 23 ~ 30VDC | 43 ~ 53VDC | | | | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | ±1.0% | ±1.0% | ±1.0% | | | | | |
| | LINE REGULATION | ±0.5% | ±0.3% | ±0.2% | ±0.2% | | | | | |
| | LOAD REGULATION | ±1.0% | ±1.0% | ±1.0% | ±1.0% | | | | | |
| | SETUP, RISE TIME | 300ms, 50ms at full load | | | | | | | | |
| INPUT | VOLTAGE RANGE | B:19 ~ 36VDC | | | | | | | | |
| | EFFICIENCY (Typ.) | 78% | 83% | 87% | 89% | | | | | |
| | DC CURRENT (Typ.) | 4A/96V | 4.4A/96V | 4.2A/96V | 4.2A/96V | | | | | |
| | INRUSH CURRENT (Typ.) | C:45A/48VDC D:45A/96VDC | | | | | | | | |
| PROTECTION | OVER LOAD | 105 ~ 135% rated output power | | | | | | | | |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | |
| | OVER VOLTAGE | 5.75 ~ 6.75V | 16.8 ~ 20V | 31.5 ~ 37.5V | 53 ~ 65V | | | | | |
| | | Protection type : Shut down o/p voltage, re-power on to recover | | | | | | | | |
| | OVER TEMPERATURE | 75°C±5°C (TSW1) Detect on main power transistor | | | | | | | | |
| | | Protection type : Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | |
| | WORKING TEMP. | -20 ~ +60 °C (Refer to output load derating curve) | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | | | | |
| ENVIRONMENT | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH | | | | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0~50°C) | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | | |
| SAFETY & | SAFETY STANDARDS | 24V and 48V input design refer to LVD | | | | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | | | | | | | | |
| EMC (Note 4) | EMI CONDUCTION & RADIATION | | | | | | | | | |
| (| EMS IMMUNITY | Compliance to EN61000-4-2,3,4,6,8; ENV50204 heavy industry level, criteria A | | | | | | | | |
| - | MTBF | 209.4K hrs min. MIL-HDBK-217F (25°C) | | | | | | | | |
| | DIMENSION | 215*115*50mm (L*W*H) | | | | | | | | |
| | PACKING | 1.1Kg; 12pcs/14.4Kg/0.92CUFT | | | | | | | | |
| NOTE | Ripple & noise are measure Tolerance : includes set up | ameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. nce: includes set up tolerance, line regulation and load regulation. ower supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets directives. | | | | | | | | |







