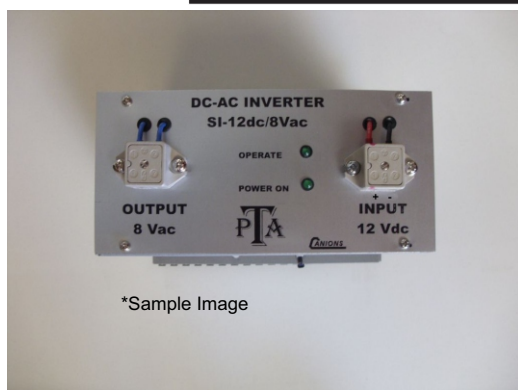


# SI-1000 series



- Features:

- True Sine Wave Output
- 1000W with Surge Power up to 2000W
- Protections: Bat. low alarm/ Bat. low shutdown/ Over voltage/ Over temp./ Output short/
- Input reverse polarity.
- Up to 92% efficiency
- 1 year warranty

## SPECIFICATION

| MODEL                    |                                                                                                                                                                                                                                                                                                                                                                 | SI-12110-1000                                                                                                        | SI-24110-1000 | SI-48110-1000 | SI-12240-1000                                            | SI-24240-1000 | SI-48240-1000 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|---------------|----------------------------------------------------------|---------------|---------------|
| OUTPUT                   | RATED POWER (Typ.)                                                                                                                                                                                                                                                                                                                                              | 1000W                                                                                                                |               |               |                                                          |               |               |
|                          | MAXIMUM OUTPUT POWER (Typ.)                                                                                                                                                                                                                                                                                                                                     | 1150W for 180 sec. / 1500W for 10 sec. / surge power 2000W for 30 cycles                                             |               |               |                                                          |               |               |
|                          | AC VOLTAGE                                                                                                                                                                                                                                                                                                                                                      | 110VAC                                                                                                               |               |               | 240VAC                                                   |               |               |
|                          | FREQUENCY                                                                                                                                                                                                                                                                                                                                                       | 60±0.1Hz                                                                                                             |               |               | 50± 0.1Hz                                                |               |               |
|                          | WAVEFORM                                                                                                                                                                                                                                                                                                                                                        | Note.6 True sine wave (THD<3%)                                                                                       |               |               |                                                          |               |               |
|                          | AC REGULATION (Typ.)                                                                                                                                                                                                                                                                                                                                            | ± 3.0%                                                                                                               |               |               |                                                          |               |               |
|                          | SAVING MODE (Typ.)                                                                                                                                                                                                                                                                                                                                              | Default disabled. Load ≤ 5W will be changed to standby mode                                                          |               |               |                                                          |               |               |
| FRONT PANEL INDICATOR    |                                                                                                                                                                                                                                                                                                                                                                 | Battery voltage level, output load level, saving mode, fault and operation status                                    |               |               |                                                          |               |               |
| INPUT                    | BAT. VOLTAGE                                                                                                                                                                                                                                                                                                                                                    | 12V                                                                                                                  | 24V           | 48V           | 12V                                                      | 24V           | 48V           |
|                          | VOLTAGE RANGE (Typ.)                                                                                                                                                                                                                                                                                                                                            | Note.4,6 10.5 ~ 15VDC                                                                                                | 21 ~ 30VDC    | 42 ~ 60VDC    | 10.5 ~ 15VDC                                             | 21 ~ 30VDC    | 42 ~ 60VDC    |
|                          | DC CURRENT (Typ.)                                                                                                                                                                                                                                                                                                                                               | 100A                                                                                                                 | 50A           | 25A           | 100A                                                     | 50A           | 25A           |
|                          | NO LOAD DISSIPATION (Typ.)                                                                                                                                                                                                                                                                                                                                      | ≤ 6W @ standby saving mode                                                                                           |               |               |                                                          |               |               |
|                          | OFF MODE CURRENT DRAW                                                                                                                                                                                                                                                                                                                                           | ≤ 1mA                                                                                                                |               |               |                                                          |               |               |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                               | Note.1 88%                                                                                                           | 89%           | 90%           | 90%                                                      | 91%           | 92%           |
| BATTERY TYPES            |                                                                                                                                                                                                                                                                                                                                                                 | Open & sealed lead acid                                                                                              |               |               |                                                          |               |               |
| BATTERY INPUT PROTECTION | FUSE                                                                                                                                                                                                                                                                                                                                                            | 40A*4                                                                                                                | 40A*2         | 20A*2         | 40A*4                                                    | 40A*2         | 20A*2         |
|                          | BAT. LOW ALARM                                                                                                                                                                                                                                                                                                                                                  | 11.3± 4%                                                                                                             | 22.5± 4%      | 45± 4%        | 11.3± 4%                                                 | 22.5± 4%      | 45± 4%        |
|                          | BAT. LOW SHUTDOWN                                                                                                                                                                                                                                                                                                                                               | 10.5± 4%                                                                                                             | 21± 4%        | 42± 4%        | 10.5± 4%                                                 | 21± 4%        | 42± 4%        |
|                          | REVERSE POLARITY                                                                                                                                                                                                                                                                                                                                                | By internal fuse open                                                                                                |               |               |                                                          |               |               |
| OUTPUT PROTECTION        | OVER TEMPERATURE                                                                                                                                                                                                                                                                                                                                                | 90℃± 5℃                                                                                                              |               |               | 70℃± 5℃                                                  |               |               |
|                          | OUTPUT SHORT                                                                                                                                                                                                                                                                                                                                                    | Protection type : Shut down o/p voltage, re-power on to recover ; by internal RTH3 detect on heatsink of power diode |               |               |                                                          |               |               |
|                          | OVER LOAD (Typ.)                                                                                                                                                                                                                                                                                                                                                | 105 ~ 115% load for 180 sec., 115% ~ 150% load for 10 sec.                                                           |               |               |                                                          |               |               |
|                          | GFCI PROTECTION                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                  |               |               | N/A                                                      |               |               |
| ENVIRONMENT              | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                   | Note.3 0 ~ +40℃ @ 100% load ; +60 °@ 50% load                                                                        |               |               |                                                          |               |               |
|                          | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                | 20% ~ 90% RH non-condensing                                                                                          |               |               |                                                          |               |               |
|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                         | -30 ~ +70℃ / -22 ~ +158 F, 10 ~ 95% RH non-condensing                                                                |               |               |                                                          |               |               |
|                          | VIBRATION                                                                                                                                                                                                                                                                                                                                                       | 10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes                                                         |               |               |                                                          |               |               |
| SAFETY & EMC             | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                | U 4588AC TP TC 004                                                                                                   |               |               | EAC TP TC 004                                            |               |               |
|                          | LVD                                                                                                                                                                                                                                                                                                                                                             | None                                                                                                                 |               |               | EN60950-1                                                |               |               |
|                          | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                               | Bat I/P - AC O/P:3.0KVAC AC O/P - FG:1.5KVAC                                                                         |               |               |                                                          |               |               |
|                          | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                            | AC O/P-FG, Bat I/P-FG:100M Ohms/500VDC / 25 %RH                                                                      |               |               |                                                          |               |               |
|                          | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                    | Compliance to FCC class A, EAC TP TC 020                                                                             |               |               | Compliance to EN55032 class A, 72/ 245/ CEE, 95/ 54/ CE, |               |               |
|                          | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                    | Compliance to EAC TP TC 020                                                                                          |               |               | Compliance to EN61000-4-2,3,8, EAC TP TC 020             |               |               |
| OTHERS                   | MTBF                                                                                                                                                                                                                                                                                                                                                            | 66.9K hrs min. MIL-HDBK-217F (25℃)                                                                                   |               |               |                                                          |               |               |
|                          | DIMENSION                                                                                                                                                                                                                                                                                                                                                       | 400*200*100mm (L*W*H)                                                                                                |               |               |                                                          |               |               |
|                          | PACKING                                                                                                                                                                                                                                                                                                                                                         | 4.3Kg;                                                                                                               |               |               |                                                          |               |               |
|                          | COOLING                                                                                                                                                                                                                                                                                                                                                         | Thermostatically controlled cooling fan                                                                              |               |               |                                                          |               |               |
| NOTE                     | 1. Efficiency is tested by 750W, linear load at 13V, 26V, 52V input voltage.<br>2. All parameters not specified above are mesured at rated load, 25C of ambient temperature<br>3. Output detrating capacity referenced by curve 1.<br>4. Input detrating capacity refernced by curve 2.<br>5. THD is tested by 1000w, linear load at 13, 26, 52V input voltage. |                                                                                                                      |               |               |                                                          |               |               |

