



SUNPOWER TECHNOLOGY CORP.  
16F-1, No.150, Jian Yi Rd., Chung Ho City, Taipei Hsien, Taiwan, R.O.C.  
TEL: 886-2-8226-3100 FAX: 886-2-8226-3111  
http://www.sunpower.com.tw  
E-mail: sunpower@sunpower.com.tw

## SPX-6400A2 / SPX-6400P2

Auto Sensing / Active P.F.C Function

400W, Six Output

For Industrial 2U System



100 x 200 x 67mm  
3.94 x 7.87 x 2.64inch

### Features:

- \* AC input 115V / 230V Auto sensing: SPX-6400A2
- \* Universal full range AC input with active PFC, P.F.> 0.95: SPX-6400P2
- \* +3.3V, +5V main output remote sensing
- \* Remote control power ON/OFF
- \* Over load, over voltage & short circuit protection
- \* Built in EMI filter, low ripple noise
- \* Built-in long life ball bearing fan
- \* 100% 50°C burn-in test
- \* Meet Intel ATX 2.01 / ATX2.03 / ATX 12V / EPS
- \* UL, cUL, TUV, ,CB, CE certified
- \* 1 years warranty

### Specification:

|              |                          | V1                                                                                       | V2                                                                             | V3     | V4    | V5   | V6      |       |
|--------------|--------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------|-------|------|---------|-------|
| OUTPUT       | Voltage                  |                                                                                          | +3.3V                                                                          | +5V    | +12V  | -5V  | -12V    | +5Vsb |
|              | Min. Load                |                                                                                          | 0A                                                                             | 1A     | 0.5A  | 0A   |         |       |
|              | Max. Load                |                                                                                          | 30A                                                                            | 40A    | 20A   | 0.5A | 1A      | 2A    |
|              | Regulation               | SPX-6400A2                                                                               | ±5%                                                                            | +5/-4% | ±5%   |      | +8/-10% | ±5%   |
|              |                          | SPX-6400P2                                                                               | ±5%                                                                            | +5/-4% | ±5%   |      | +8/-5%  | ±5%   |
|              | Ripple Noise(max)        |                                                                                          | 50mV                                                                           |        | 120mV | 50mV | 150mV   | 50mV  |
|              | Efficiency (typ)         |                                                                                          | SPX-6400A2: 70%; SPX-6400P2: 66%                                               |        |       |      |         |       |
| Max Power    |                          | +3.3V & +5V max 200W, total output max 400W                                              |                                                                                |        |       |      |         |       |
| INPUT        | Voltage                  |                                                                                          | AC 115V / 230V auto sensing or universal full range                            |        |       |      |         |       |
|              | Frequency                |                                                                                          | 47 ----- 63 Hz                                                                 |        |       |      |         |       |
|              | Current                  | SPX-6400A2                                                                               | <9.0A @ 115V AC input, <5.0A @ 230V AC input, full load condition              |        |       |      |         |       |
|              |                          | SPX-6400P2                                                                               | <6.0A @ 100V AC input, full load condition                                     |        |       |      |         |       |
|              | Inrush Current           | SPX-6400A2                                                                               | <40A@115V / <80A@230V AC input, full load condition. Cold start at 25℃ ambient |        |       |      |         |       |
|              |                          | SPX-6400P2                                                                               | <30A@115V / <60A@230V AC input, full load condition. Cold start at 25℃ ambient |        |       |      |         |       |
|              | Leakage Current          |                                                                                          | <1.5mA@264V AC input                                                           |        |       |      |         |       |
| Power Factor |                          | Meet IEC 1000-3-2 class D, P.F.>0.95 (SPX-6400P2)                                        |                                                                                |        |       |      |         |       |
| PROTECTION   | Over Load Protection     |                                                                                          | Over 105% ~ 150% of rating, shutdown                                           |        |       |      |         |       |
|              | Over Voltage Protection  |                                                                                          | +3.3V: +3.8V~+4.6V, +5V: +5.8V~+7.0V, +12V: +13.8V~+17.5V                      |        |       |      |         |       |
|              | Short Circuit Protection |                                                                                          | Shutdown                                                                       |        |       |      |         |       |
| OTHERS       | Setup time               |                                                                                          | -----                                                                          |        |       |      |         |       |
|              | Rise time                |                                                                                          | SPX-6400A2: <20mS; SPX-6400P2: <60mS                                           |        |       |      |         |       |
|              | Hold up time             |                                                                                          | >20mS@230V                                                                     |        |       |      |         |       |
|              | TTL Signal               |                                                                                          | Power Good Signal, PS-ON Signal                                                |        |       |      |         |       |
|              | Cooling                  |                                                                                          | Two 16 CFM (min.) DC ball bearing Fan                                          |        |       |      |         |       |
| Environment  | Temperature              |                                                                                          | Operating: 0~70℃; derating: 45℃ ~70℃ : 2.5%/℃. Storage: -10~+75℃               |        |       |      |         |       |
|              | Humidity                 |                                                                                          | Operating: 20% ~ 85%; Storage: 10% ~ 95% (non condensing)                      |        |       |      |         |       |
| M.T.B.F.     |                          | SPX-6400A2: 166K hours; SPX-6400P2: 91K hours                                            |                                                                                |        |       |      |         |       |
| SAFETY       |                          | UL 60950, CSA C22.2 No.60950, TUV EN 60950, IEC 60950, EMKO-TSE (74-SEC)207/94 Certified |                                                                                |        |       |      |         |       |
| EMC          | EMI                      |                                                                                          | FCC CFR 47 PART 15 CLASS B, EN 50081-1, CNS 13438 CALSS B.                     |        |       |      |         |       |
|              | EMS                      |                                                                                          | EN 50082-1 (1997)                                                              |        |       |      |         |       |

[illegible]

*UNIT : mm*