

# ATX-6200-1U / ATX-6250-1U

## 200W/250W, Six Output For 1U System ATX12V Power supply



180 x 100 x 40.5 mm  
7.09 x 3.94 x 1.60 inch



### Features:

- \* Universal full range AC input with active PFC, P.F.> 0.95
- \* High efficiency and reliability
- \* Altitude during operation up to 4000M
- \* Built-in long life ball bearing fan
- \* 3.3V & 5V VRM design
- \* Over voltage, over load & short circuit, over current, over temperature protection
- \* With power good signal & PS-ON signal output
- \* Meet Intel ATX 2.01 / ATX2.31 / ATX 12V
- \* 2 years warranty

### Specification:

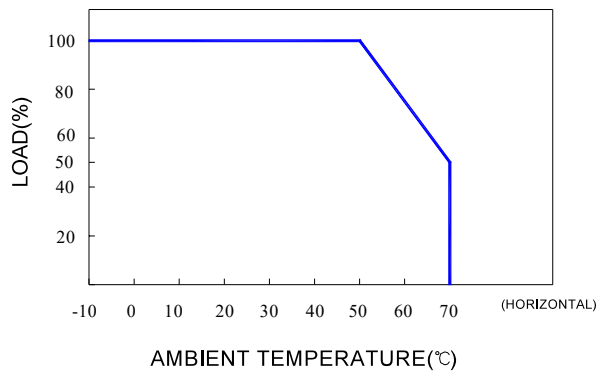
|             |                                                                                                                                                                                                                     |             |                                                                                                                                            |           |             |                          |        |       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|--------------------------|--------|-------|
| INPUT       | Voltage                                                                                                                                                                                                             |             | 90V ~ 264VAC universal full range or 127V ~ 375VDC                                                                                         |           |             |                          |        |       |
|             | Frequency                                                                                                                                                                                                           |             | 47 ----- 63 Hz.                                                                                                                            |           |             |                          |        |       |
|             | Current                                                                                                                                                                                                             | ATX-6200-1U | <2.8A @ 100VAC input, full load condition                                                                                                  |           |             |                          |        |       |
|             |                                                                                                                                                                                                                     | ATX-6250-1U | <3.5A @ 100VAC input, full load condition                                                                                                  |           |             |                          |        |       |
|             | Inrush Current(TYP.)                                                                                                                                                                                                |             | 40A@115V , 60A@230V AC input, Cold start, at 25℃ ambient                                                                                   |           |             |                          |        |       |
|             | Leakage Current                                                                                                                                                                                                     |             | <1.5mA@264V AC input                                                                                                                       |           |             |                          |        |       |
|             | Power Factor                                                                                                                                                                                                        |             | PF > 0.95                                                                                                                                  |           |             |                          |        |       |
| OUTPUT      | Voltage                                                                                                                                                                                                             |             | 5V                                                                                                                                         | 3.3V      | 12V         | -12V                     | -5V    | 5Vsb  |
|             | Min Load                                                                                                                                                                                                            |             | 0.3A                                                                                                                                       | 0A        | 0.2A        | 0A                       | 0A     | 0A    |
|             | Max Load                                                                                                                                                                                                            | ATX-6200-1U | 20A                                                                                                                                        | 25A       | 12A         | 0.5A<br>Peak Load 1.5A ⑥ | 0.5A   | 3A    |
|             |                                                                                                                                                                                                                     | ATX-6250-1U |                                                                                                                                            |           | 16A         |                          |        |       |
|             | Output Tolerance ②                                                                                                                                                                                                  |             | ±3%                                                                                                                                        | ±5%       | ±3%         | ±10%                     | ±5%    | ±5%   |
|             | Ripple Noise MAX. ③                                                                                                                                                                                                 |             | 70mV                                                                                                                                       | 70mV      | 120mV       | 120mV                    | 100 mV | 70 mV |
|             | Efficiency (TYP.)                                                                                                                                                                                                   |             | 83%                                                                                                                                        |           |             |                          |        |       |
| PROTECTION  | Output MAX.                                                                                                                                                                                                         |             | SPX-6200-GP1 : 3.3V & 5V max 110W, total output max 200W<br>SPX-6250-GP1 : 3.3V & 5V max 110W, total output max 250W                       |           |             |                          |        |       |
|             | Over Voltage                                                                                                                                                                                                        |             | 5.4V~6.8V                                                                                                                                  | 3.7V~4.1V | 13.1V~14.5V | ----                     | ----   | ----  |
|             |                                                                                                                                                                                                                     |             | Shutdown and latch off, recover after re-start up.                                                                                         |           |             |                          |        |       |
|             | Over current (MAX)                                                                                                                                                                                                  |             | 30A                                                                                                                                        | 30A       | 20A         | ----                     | ----   | ----  |
|             | OverLoad & ShortCircuit                                                                                                                                                                                             |             | When power supply over 105%~ 150% max load or short circuit acted, power supply will be shutdown and latch off, recover after re-start up. |           |             |                          |        |       |
| ELEC. CHAR. | Over Temperature                                                                                                                                                                                                    |             | Over 95℃± 5℃ Shutdown, recovers automatically after fault condition has been removed.                                                      |           |             |                          |        |       |
|             | Rise time                                                                                                                                                                                                           |             | <20mS                                                                                                                                      |           |             |                          |        |       |
|             | Hold up time                                                                                                                                                                                                        |             | >16mS@230V                                                                                                                                 |           |             |                          |        |       |
|             | Power Good signal                                                                                                                                                                                                   |             | Power on within 100~500ms, high level TTL signal release.                                                                                  |           |             |                          |        |       |
| ENVIRONMENT | PS-ON signal                                                                                                                                                                                                        |             | P/S ON: PS-ON=Low or <0.8V, P/S OFF: PS-ON=Hi or >2V                                                                                       |           |             |                          |        |       |
|             | Temperature ④                                                                                                                                                                                                       |             | Operating: -10~70℃ ; De-rating: 50~70℃ : 2.5%/℃. ; Storage: -20~+85℃                                                                       |           |             |                          |        |       |
|             | Humidity                                                                                                                                                                                                            |             | Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)                                                          |           |             |                          |        |       |
|             | Altitude                                                                                                                                                                                                            |             | 13124ft ( ≈ 4000m ) operating                                                                                                              |           |             |                          |        |       |
| SAFETY      | Withstand voltage                                                                                                                                                                                                   |             | I/P-O/P:3.0KVAC, I/P-PE:1.8KVAC, 1minute                                                                                                   |           |             |                          |        |       |
|             | Isolation resistance                                                                                                                                                                                                |             | I/P-O/P, I/P-PE > 100MΩ/500VDC at 25℃/ 70% RH                                                                                              |           |             |                          |        |       |
|             | Safety standard                                                                                                                                                                                                     |             | UL 62368-1, 2 <sup>nd</sup> Edition, 2014-12-01, CAN/CSA C22.2 No.62368-1-14, 2 <sup>nd</sup> Edition, 2014-12, IEC 62368-1:2014           |           |             |                          |        |       |
| EMC         | EMI                                                                                                                                                                                                                 |             | EN / BS EN 55032 CLASS B, FCC CFR 47 PART 15 CLASS B                                                                                       |           |             |                          |        |       |
|             | EMS                                                                                                                                                                                                                 |             | Compliance to EN/ BS EN 61000-3-2 CLASS D, EN/ BS EN 61000-3-3<br>EN / BS EN 55035 : 2017 EN / BS EN 61000-4-2,3,4,5,6,8,11                |           |             |                          |        |       |
| OTHERS      | Cooling                                                                                                                                                                                                             |             | Forced airflow cooling with a DC fan.                                                                                                      |           |             |                          |        |       |
|             | M.T.B.F.                                                                                                                                                                                                            |             | 108.7 K hours                                                                                                                              |           |             |                          |        |       |
|             | Dimension                                                                                                                                                                                                           |             | 180 x 100 x 40.5 mm (L*W*H)                                                                                                                |           |             |                          |        |       |
|             | PACKING                                                                                                                                                                                                             |             | N.W.: 1.17 KG / 1PC; 12 PCS / 2.02 CUFT / 1 CTN                                                                                            |           |             |                          |        |       |
| NOTE        | ① All measurements which not mentioned are based on 230VAC input, <b>output max</b> at ambient 25℃ / 70%RH                                                                                                          |             |                                                                                                                                            |           |             |                          |        |       |
|             | ② Output tolerance included set up voltage, line regulation and load regulation.<br>The regulation is measured between 20%-100% <b>max load</b> of each output, Total output must under <b>output Max</b> .         |             |                                                                                                                                            |           |             |                          |        |       |
|             | ③ Ripple & noise are measured at 10~50℃ condition and 20MHz of bandwidth by using a 10" ~ 15" twisted pair-wire terminated with a 0.1uF & a 10uF parallel capacitor.                                                |             |                                                                                                                                            |           |             |                          |        |       |
|             | ④ The operating temperature shall follow the de-rating curve in spec<br>The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC                           |             |                                                                                                                                            |           |             |                          |        |       |
|             | ⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.                                                                           |             |                                                                                                                                            |           |             |                          |        |       |
|             | ⑥ 33% duty cycle maximum within every 10 seconds, average output power should not exceed the <b>Max</b> . load                                                                                                      |             |                                                                                                                                            |           |             |                          |        |       |
|             | ⑦ Start up steps : Connect AC or DC source, before you turn on the power supply. The unit can't be operated by PS-ON and GND are shorted before power supply turns on. Please contact us for different requirement. |             |                                                                                                                                            |           |             |                          |        |       |



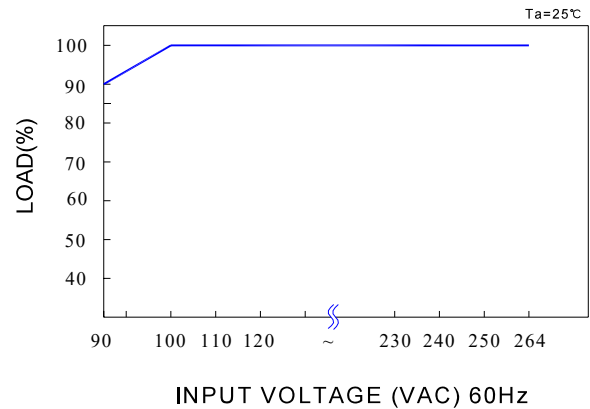
Nippon Beta Power Co., Ltd

# ATX-6200-1U / ATX-6250-1U

De-rating Curve :



Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)

