

# POWERGEN

## 1~3kVA Online Tower UPS

### Power range

1~3KVA

### Operation

1P/1P, Online double conversion



### Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.

### Characteristics

- High efficiency up to 96%
- Output PF=1, high load adaptability.
- Wide input voltage range of 110~300Vac.
- Max charging current up to 12A.
- Input filter function as standard.
- Compatible with inductive load.

| Model                                                                                                                                                                        |               | POWER X1 A-TOWER<br>1000                                                                          |                            | POWER X1 A-TOWER<br>2000       |                            | POWER X1 A-TOWER<br>3000       |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|----------------------------|--------------------------------|----------------------------|
| Rate Power                                                                                                                                                                   |               | 1kVA                                                                                              | 1kVA                       | 2kVA                           | 2kVA/                      | 3kVA                           | 3kVA                       |
| Cold start                                                                                                                                                                   |               | Default output 50/60Hz                                                                            |                            |                                |                            |                                |                            |
| Input voltage range                                                                                                                                                          |               | 110~300VAC;100% load@176VAC~276VAC, 100%~50% power derating@110VAC~176VAC, 50% load@276VAC~300VAC |                            |                                |                            |                                |                            |
| Input power factor                                                                                                                                                           |               | ≥0.99                                                                                             |                            |                                |                            |                                |                            |
| Frequency range                                                                                                                                                              |               | 50/60±5Hz(default), ±3Hz/±10Hz(settable)                                                          |                            |                                |                            |                                |                            |
| Output power factor                                                                                                                                                          |               | 1.0                                                                                               |                            |                                |                            |                                |                            |
| Output                                                                                                                                                                       | Rate voltage  | 220/230/240VAC                                                                                    |                            |                                |                            |                                |                            |
|                                                                                                                                                                              | Load response | ≤5% (0% - 100% -0%)                                                                               |                            |                                |                            |                                |                            |
|                                                                                                                                                                              | Recovery time | ≤40ms(0%-100%-0%)                                                                                 |                            |                                |                            |                                |                            |
|                                                                                                                                                                              | Output THDu   | ≤2% , Linear load ; ≤ 5% non-linear load according to IEC62040-3                                  |                            |                                |                            |                                |                            |
| Transfer time                                                                                                                                                                | Main to BAT   | 0                                                                                                 |                            |                                |                            |                                |                            |
|                                                                                                                                                                              | INV to BYP    | 4ms                                                                                               |                            |                                |                            |                                |                            |
| Crest factor                                                                                                                                                                 |               | 3:1                                                                                               |                            |                                |                            |                                |                            |
| Efficiency (normal mode)                                                                                                                                                     |               | Max 96%                                                                                           |                            |                                |                            |                                |                            |
| Noise (1 meter)                                                                                                                                                              |               | 43dB@<60%load, 47dB@>60%load                                                                      |                            | <50dB@<60%load, <55dB@>60%load |                            | <50dB@<60%load, <55dB@>60%load |                            |
| Overload                                                                                                                                                                     | Normal        | 102%~110%: 30mins, 110%~125%:10mins, 125%~150%: 30 seconds                                        |                            |                                |                            |                                |                            |
|                                                                                                                                                                              | Battery mode  | 102%~110%: 1min, 110%~125%: 10 seconds, 125%~150%:5 seconds                                       |                            |                                |                            |                                |                            |
|                                                                                                                                                                              | Bypass mode   | <130%: long time, 130%~150%:10mins, 150%~180%:5 seconds                                           |                            |                                |                            |                                |                            |
| Battery                                                                                                                                                                      | Model         | 12VDC/7Ah                                                                                         | Depend on external battery | 12VDC/7Ah                      | Depend on external battery | 12VDC/7Ah                      | Depend on external battery |
|                                                                                                                                                                              | Quantity      | 3                                                                                                 |                            | 6                              |                            | 8                              |                            |
|                                                                                                                                                                              | Max charging  | 1A                                                                                                | 1-12A(settable)            | 1A                             | 1-12A(settable)            | 1A                             | 1-12A(settable)            |
|                                                                                                                                                                              | Rate voltage  | 36VDC                                                                                             |                            | 72VDC                          |                            | 96VDC                          |                            |
| Certification- Safety                                                                                                                                                        |               | IEC62040-1, IEC60950-1                                                                            |                            |                                |                            |                                |                            |
| Certification- EMS                                                                                                                                                           |               | IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT)                               |                            |                                |                            |                                |                            |
| Standard                                                                                                                                                                     |               | EPO, RS232                                                                                        |                            |                                |                            |                                |                            |
| Option                                                                                                                                                                       |               | SNMP card, AS400, USB, RS485, BMS by dry contact, Air filter                                      |                            |                                |                            |                                |                            |
| Dimension, W*D*H(mm)                                                                                                                                                         |               | 144*350*223                                                                                       |                            | 190*405*330                    | 144*410*223                | 190*405*330                    | 144*410*223                |
| Weight (kg)                                                                                                                                                                  |               | 10.5                                                                                              | 4.5                        | 20.5                           | 6                          | 25                             | 6                          |
| Products will continue to innovate, which may lead to asynchronized updates. Therefore, this document is for reference only and does not constitute any offer or commitment. |               |                                                                                                   |                            |                                |                            |                                |                            |

