

BP series Smart battery charger



The BP series smart battery charger is designed especially for various kinds of lead acid batteries in various applications. Combined with most up to date technology and our knowledge with batteries, it can be your advisable choice for your batteries recharging.

Batteries will be permanently damaged by either overcharged or remaining undercharged for any period of time. BP series Smart battery charger will continuously deliver right charging at any circumstance. Meantime, it offers some very useful battery management features which can recondition your battery to prolong its life expectancy.

Features:

- **Controlled by microprocessor and with TBB Premium I multiple charging stages, which can always keep your battery in good condition avoiding undercharge or overcharging.**
- **Recycle Charging**
- **Easily choose 4 options covering Flooded, Freedom, Gel, AGM Batteries by dip switch setting.**
- **Automatic temperature compensation**
- **Silent fan**
- **PCB coated against salt moisture corrosion.**
- **High ambient temperature rated.**
- **Complete protection**
- **Reverse polarity protection**
- **Active PFC available**
- **LVD and EMC compliance**

| Model | BP1212-A | BP1225-A | BP1240-A | BP2412-A | BP2420-A |
|---|---|------------|------------|------------|------------|
| Physical Specifications | | | | | |
| Dimensions (L*W*H)(mm) | 300x188x68 | 300x188x68 | 350x188x68 | 300x188x68 | 350x188x68 |
| Weight (kg) | 2 | 2.5 | 3.4 | 2.5 | 2.8 |
| Enclosure | Aluminium with anodized, flame proof plastic | | | | |
| Assembly | Wall-mounted | | | | |
| Electrical Specifications | | | | | |
| Nominal battery (V) | 12 | | | 24 | |
| Rated DC output(A) | 12 | 25 | 40 | 12 | 20 |
| Charge Algorithms | Automatic 6(max) steps charging curves. | | | | |
| Norminal input (V) | 185-265VAC 50Hz | | | | |
| BTC | Automatic active when temperature sensor plug in | | | | |
| Power supply mode nominal output voltage(V) | 13.5 0.6 | | | 27 0.6 | |
| Efficiency | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 |
| Power factor | 60% | 60% | 60% | 70% | 70% |
| Cooling | forced cooling | | | | |
| Protection category | IP20 | | | | |
| Protection Features | | | | | |
| Short circuit on output | BC shutdown | | | | |
| Reverse Polarity | Electronic protect and inside fuse as a backup | | | | |
| Charger over temp | Reduce output power while charger in overtemp condition | | | | |
| Batt over temperature | BC shutdown at a battery temperature of 122F (50C) | | | | |
| Battery over voltage | will not start charging if any battery voltage is greater than 15.0VDC; | | | | |
| Approvals | charging if any battery voltage is greater than 16.0VDC | | | | |
| LVD | EN60335-1,EN60335-2-29 | | | | |
| EMC | EN55014-1,EN55014-2,EN61000-3-2,EN61000-3-3 | | | | |

