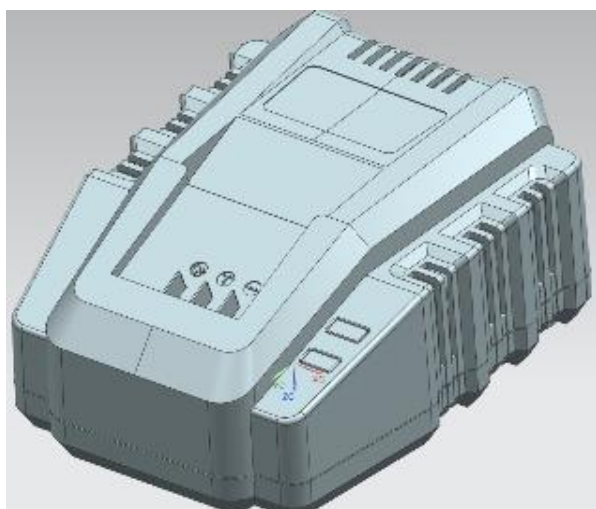


# 120W Charger for gardening electrical tool



(イメージ参考図)

## ■ Feature:

- Miniaturized Design: Small size and light weight
- Class II
- Protection: Short Circuit/Over Load/Overvoltage
- RoHS、Reach compliance
- LED indicate
- High surge/ESD protection specification、High Reliability

## ■ Application:

- Charging for the lithium battery of the gardening electrical tool
- Supporting use according to customer-specific shapes

## ■ 描述:

120W charger for gardening electrical tool, is designed with a plastic shell, which can effectively prevent users from electrical hazards. Its efficiency meets the latest energy efficiency requirements. It can work safely and effectively at an ambient temperature of 0 °C to 40°C. It has complete Protection function.

## Key Specification

| Model  |                            |  |            |
|--------|----------------------------|--|------------|
| Output | Voltage                    | 58V  | 40V        |
|        | Rated current              | 2.0A   | 3A         |
|        | Current range              | 1.8 ~ 2.2A   | 2.7 ~ 3.3A |
|        | Rated Power                | 120W   | 120W       |
|        | Ripple&Noise (max) Remark2 | 2Vp-p  | 2Vp-p      |
|        | Voltage range              | 50.4 ~ 58.8V   | 36-42V     |
|        | Mode                       | CV   | CV         |
| Input  | Voltage range              | 90 ~ 264VAC(available at 277VAC, compliance 300VAC at India)   |            |
|        | Frequency range            | 47 ~ 63Hz  |            |
|        | Efficiency(Typ.)           | 85%  |            |
| Safety | Safety Standard            | IEC/EN60950、60065、62368  |            |
|        | Safety Type                | “●” Indicates that it is currently certified, “◎” Indicates that the applicant meet the certification requirement but not be certified |            |
|        | CB                         | ◎  |            |
|        | CE+LVD                     | ◎  |            |
|        | BIS                        | ◎  |            |
|        | UL/CUL                     | ◎  |            |
|        | GS                         | ◎  |            |
|        | PSE                        | ◎  |            |
|        | PSB                        | ◎  |            |
|        | CCC                        | ◎  |            |
|        | RCM                        | ◎  |            |
|        | BSMI                       | ◎  |            |
|        | IRAM                       | ◎  |            |
|        | KC                         | ◎  |            |
|        | SABS                       | ◎  |            |
|        | SASO                       | ◎  |            |
|        | EAC                        | ◎  |            |
| B-MARK | ◎                          |  |            |
| SII    | ◎                          |  |            |
| BR     | ◎                          |  |            |

# 120W Charger for gardening electrical tool

## Electrical Specification

| Model                          |  |   |                                |                               |
|--------------------------------|--|---|--------------------------------|-------------------------------|
| Output                         | Voltage  | 58V   | 40V                            |                               |
|                                | Rated Current  | 2A  | 3A                             |                               |
|                                | Current Range  | 1.8 ~ 2.2A  | 2.7 ~ 3.3A                     |                               |
|                                | Rated Power  | 120W  | 120W                           |                               |
|                                | Ripple&Noise (max)Remark2  | 2Vp-p   | 2Vp-p                          |                               |
|                                | Voltage Range  | 50.4 ~ 58.8V  | 36 ~ 42V                       |                               |
|                                | Mode   | CV  | CV                             |                               |
|                                | Line Regulation  | ±1.0%   |                                |                               |
|                                | Load Regulation  | ±3.0%   |                                |                               |
|                                | Start/Rise time  | 2000ms, 80ms/230VAC 3000ms, 80ms/115VAC(Full load)  |                                |                               |
|                                | Hold-up time(Typ.)   | 20ms/230VAC 10ms/115VAC(Full load)  |                                |                               |
| Input                          | Voltage Range  | 90 ~ 264VAC(available at 277VAC, compliance 300VAC at India)  |                                |                               |
|                                | Frequency Range  | 47 ~ 63Hz   |                                |                               |
|                                | Standby consumption  | 100mW   |                                |                               |
|                                | Efficiency(Typ.)   | 85%   |                                |                               |
|                                | Input Current(Typ.)  | 3A max @100~240Vac  |                                |                               |
| Protection                     | Surge Current(Typ.)  | COLD START 80A/100Vac 150A/240Vac   |                                |                               |
|                                | Overload   | 110~145% of rated output power  |                                |                               |
|                                |  | Hic-cup mode while the output voltage is less than 50% of the rated output.<br>Constant current mode while the output voltage is 50%~100% of the rated output.<br>Recovers automatically after fault condition is removed |                                |                               |
| Overvoltage                    | >58.8V   | >42V  |                                |                               |
| Environment                    | Protection Type: Turn off the output, through the PWM control chip built-in VDD voltage clamping   |   |                                |                               |
|                                | Work Temperature   | 0~ +40°C  |                                |                               |
|                                | Work Humidity  | 20 ~ 95% RH, non-condensing   |                                |                               |
|                                | Storage Temperatur&Humidity  | -20 ~ +75°C, 20 ~ 95% RH, non-condensing  |                                |                               |
|                                | Temperature coefficient  | ±0.03%/°C (0~ 50°C)   |                                |                               |
|                                | Vibration resistant  | 10 ~ 500Hz, 1G 10mins/ circle , X, Y, Z 30mins for each   |                                |                               |
|                                | Altitude   | 5000m   |                                |                               |
|                                | Hi-pot   | I/P-O/P:3KVAC   |                                |                               |
| EMC                            | Isolation Resistane  | I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH   |                                |                               |
|                                | EMI  | Parameter   | Standard                       | Test Level / Note             |
|                                |  | Conducted   | EN55032(CISPR32), FCC Part 15B | Class B                       |
|                                |  | Radiated  | EN55032(CISPR32), FCC Part 15B | Class B                       |
|                                |  | Harmonic Current  | EN61000-3-2                    | Class A                       |
|                                |  | Voltage Flicker   | EN61000-3-3                    | -----                         |
|                                | EMS  | EN55035, EN61000-6-2, EN61204-3   |                                |                               |
|                                |  | Parameter   | Standard                       | Test Level /Note              |
|                                |  | ESD   | EN61000-4-2                    | Level 3,15KV air; Level 2,8KV |
|                                |  | Radiated  | EN61000-4-3                    | Level 3, criteria A           |
|                                |  | EFT/Burest  | EN61000-4-4                    | Level 3, criteria A           |
|                                |  | Surge   | EN61000-4-5                    | Level 4, 4KV/L-N, criteria A  |
|                                |  | Conducted   | EN61000-4-6                    | Level 3, criteria A           |
| Magnetic Field                 |  | EN61000-4-8   | Level 4, criteria A            |                               |
| Voltage Dips and interruptions | EN61000-4-11   | >95% dip 0.5 periods, 30% dip 25 periods,<br>>95% interruptions 250 periods   |                                |                               |
| Others                         | MTBF   | ≥100K hrs. MIL-HDBK-217F (25°C)   |                                |                               |
|                                | Size(L*W*H)  | 175*110*40mm  |                                |                               |
| Remark                         | <p>1. All specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25°C unless otherwise specified.</p> <p>2. Ripple and noise measurement method: capacitance of 0.1uF and 47uF in parallel at the terminal and the measurement is performed under the 20MHZ bandwidth.</p> <p>3. Accuracy: includes setting error, linear adjustment rate and load adjustment rate.</p> <p>4. The power supply adapter is an independent component, but the final adapter still needs to be confirmed in connection with the electromagnetic compatibility of the terminal equipment.</p> |   |                                |                               |