

▪ **SALIENT FEATURES:**

- Battery Packs are Eco Friendly.
- Battery Packs are 100% efficient for charging and discharging.
- Cut-Off protection for Overcharge and Discharge.
- Very Low weight compared to Lead-Acid Battery.
- Best for Solar Application.
- More than 600 Cycles of Operation AT 80% DOD.

**BIS APPROVED**



**R-93016179**

| Description                       | Technical Specification | Remark   |
|-----------------------------------|-------------------------|--|
| Nominal Capacity                  | 20Ah                    | Capacity according to standard charge and Discharge                      |
| Nominal Voltage                   | 11.1V                   | The average value of working voltage during the whole discharge process. |
| Nominal Wattage                   | 222Wh                   |  |
| Internal Impedance of Pack        | ≤19mΩ                   | Internal Impedance calculated after series and parallel configuration    |
| Type of Cell                      | Cylindrical             | Part No. 18650   |
| Capacity of Individual Cell       | 3.7V – 2000mAh          | A Grade Cell with IR < 50mΩ  |
| Configuration                     | 3S-10P                  | 3 in Series and 8 in Parallel  |
| Charge Current                    | 5–8A                    | Constant Charge  |
| Discharge Current                 | 8A                      | Constant Discharge   |
| Charge Cut-Off Voltage            | 12.6V                   | Protected with BMS   |
| Discharge Cut-Off Voltage         | 9.0V                    | Protected with BMS   |
| Working Temperature (Charging)    | 0-45°C                  | Under constant charge  |
| Working Temperature (Discharging) | 20-55°C                 | Under constant discharge   |
| Weight                            | 1 kG                    | Approx.  |
| Dimension                         | Length (mm)             | 150mm  |
|                                   | Width (mm)              | 60mm   |
|                                   | Height (mm)             | 70mm   |
| Cycle Life                        | ≥600                    | With 80% DOD   |
| Storage Temperature               | 1 – 3 Month             | 20 - 60°C  |
|                                   | 1 – 6 Month             | 20 - 45°C  |
| Battery (LCV)                     | Provided                |  |
| Battery (HCV)                     | Provided                |  |
| Battery Reverse Protection        | Provided                |  |

## ▪ **APPAREANCE:**

All surfaces must be clean, without damages, leakage and corrosion. Each product will have a product label identifying the model.

## ▪ **PACKING:**

Cells are at full charge state when packed and assembled. PVC insulation sleeve are provided to cover the battery pack from prevention of sock and fire.

## ▪ **TRANSPORTATION:**

During transport do not put battery pack to violent shaking, bumps, rain and direct sun light.

## ▪ **WARRANTY:**

- The warranty period of this product is 24 months starting at the date of delivery from the factory.
- Warranty will be void if the BATTERY PACK are used outside these specifications.
- PACTO POWER will not be liable for any damages, personal, material, immaterial or otherwise, when the cells are used outside these specifications.

## ▪ **DANGER:**

- When charging the battery, use dedicated chargers and follow the specified conditions.
- Use the battery only in the specified equipment.
- Do not connect battery directly to an electric outlet or high current application.
- Do not heat or throw battery into a fire.
- Do not use, leave battery close to fire or inside of a car where temperature may be above 60°C. Also do not charge / discharge in such conditions.
- Do not immerse, throw, and wet battery in water/ seawater.
- Do not put batteries in your pockets or a bag together with metal objects such as necklaces, Hairpins, coins, or screws. Do not store batteries with such objects.
- Do not short circuit the (+) and (-) terminals with other metals.
- Do not place battery in a device with the (+) and (-) in the wrong way around.
- Do not pierce battery with a sharp object such as a needle.
- Do not hit with a hammer, step on or throw or drop to cause strong shock.
- Do not disassemble or modify the battery.
- Do not use a battery with serious scar or deformation.

## ▪ **WARNING:**

- Do not put battery into a microwave oven, dryer, or high-pressure container.
- Do not use battery with dry cells and other primary batteries, or batteries of a different package, type, or brand.
- Stop charging the battery if charging is not completed within the specified time.
- Stop using the battery if abnormal heat, odor, discoloration, deformation or abnormal condition is detected.

## ▪ DURING USE CHARGE or STORAGE:

- Keep away from fire immediately when leakage or foul odor is detected.
- If liquid leaks onto your skin or clothes, wash well with fresh water immediately.
- If liquid leaking from the battery gets into your eyes, do not rub your eyes. Wash them well with clean water and go to see a doctor immediately.

## ▪ CAUTION:

- Store batteries out of reach of children so that they are not accidentally swallowed.
- Before using the battery, be sure to read the user's manual and cautions on handling thoroughly.
- For information on installing and removing from equipment, thoroughly read the user's manual for the specific equipment.
- Batteries have life cycles. If the time that the battery powers equipment becomes much shorter than usual, the battery life is at an end. Replace the battery with a new same one.
- Remove a battery whose life cycle has expired from equipment immediately.
- When the battery is thrown away, be sure it is non-conducting by applying vinyl tape to the (+) and (-) terminals.
- When not using battery for an extended period, remove it from the equipment and store in a place with low humidity and low temperature.
- While the battery pack is charged, used and stored, keep it away from objects or materials with Static electric charges.
- If the terminals of the battery become dirty, wipe with a dry cloth before using the battery.
- **Never handle battery pack with its outlet wire, It leads to physical prevent damage. Use proper equipment to carry it.**

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