

▪ **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.

Description	Technical Specification	Remark
Nominal Capacity	12Ah	Capacity according to standard charge and Discharge
Nominal Voltage	14.8V	The average value of working voltage during the whole discharge process.
Nominal Wattage	177Wh	
Internal Impedance of Pack	≤25mΩ	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	4S-6P	3 in Series and 6 in Parallel
Charge Current	5–8A	Constant Charge
Discharge Current	510	Constant Discharge
Charge Cut-Off Voltage	16.8V	Protected with BMS
Discharge Cut-Off Voltage	12.0V	Protected with BMS
Working Temperature (Charging)	0-45°C	Under constant charge
Working Temperature (Discharging)	20-55°C	Under constant discharge
Weight	0.74kG	Approx.
Dimension	Length (mm)	110mm
	Width (mm)	75mm
	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.**

## **CORPORATE AND MANUFACTURING ADDRESS:**

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