

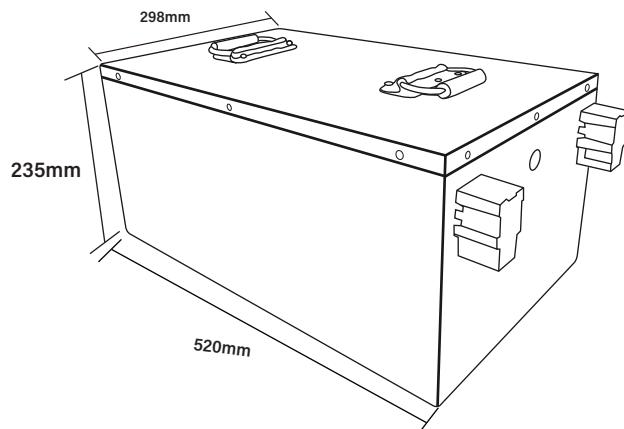


**ERFEKTIUM**

Lithium Batterie



# PBG-48-105-H



## • LITHIUM BATTERY

### Strong Advantages

- 6 Years Warranty
- Replacement of lead-acid battery
- Lighter weight and easier to handle
- Lithium iron phosphate is more stable
- Maximum service life of over 6000 cycles
- Long-lasting modular construction
- Screw opening, perfect crafted internal structure design

## • BLUETOOTH 4.0 INTEGRATED

### Multiple Battery Monitoring Function

Perfektium Pro APP can monitor up to 8 batteries at the same time. The SOC, voltage, current, temperature, available time of the batteries can be detective.

## • ELECTRIC HEATING FILM

- Some of the Perfektium lithium batteries are equipped with heating films. You can use the battery in temperatures as low as -35 degrees Celsius when acting the heating films
- The heating film is an IP material and the heating effect is even
- The heating films do not consume any power from the battery itself

## • BMS

### Battery Management System

The BMS monitors and controls the individual cells of each battery and protects them from damage, such as overload



## Specification

Items	Characteristics
<b>Model</b>	<b>51.2V 105Ah/5376Wh</b>
<b>Replaces Gel-AGM battery</b>	<b>51.2V 210Ah</b>
<b>Cell type</b>	<b>Prismatic cell</b>
<b>Dimension with terminals (L x W x H)</b>	<b>520*298*235mm</b>
<b>Weight (No Accessories)</b>	<b>47,2kg</b>
<b>Cycle Life</b>	<b>&gt;6000@80%D.o.D</b>
<b>Internal Resistance</b>	<b><math>\leq 14 \text{ m}\Omega</math></b>
<b>Recommended Charge Voltage</b>	<b>58.4V</b>
<b>Float Charge Voltage (For standby use)</b>	<b><math>55.2 \pm 0.8\text{V}</math></b>
<b>Recommended Charge Current</b>	<b>20A</b>
<b>Max Charge Current</b>	<b>150A</b>
<b>Continuous Discharge Current</b>	<b>150A</b>
<b>Peak Discharge Cut-Off Current</b>	<b>450A (200~500ms)</b>
<b>Operating Voltage Range</b>	<b>40 - 58.4V</b>
<b>End of Discharge Voltage Range</b>	<b>40 - 44.8V</b>
<b>Terminal Type</b>	<b>M8</b>
<b>Ingress Protection Code</b>	<b>IP54</b>
<b>Charge Temperature</b>	<b>0°C~45°C</b>
<b>Discharge Temperature</b>	<b>-20°C~60°C</b>
<b>Storage Temperature</b>	<b>0°C~40°C</b>
<b>Heater Operating Temperature</b>	<b>-35~5°C</b>
<b>Storage Condition</b>	<b>Charging the battery every 3 months</b>
<b>Series &amp; Parallel Availability</b>	<b>Only 4 parallel at most</b>
<b>Certifications</b>	<b>CE/UL/UN38.3/MSDS/ROHS/UN 3480/CLASS9/ECE R10</b>