

Model

PTN-BAT-05K-WM-LFP-300



[ More Usable Energy ]

100% Depth of Discharge

[ Flexible Investment ]

Up to 15 units in parallel

[ Safe & Reliable ]

Premium Lithium Iron Phosphate(LFP)  
3500 cycles

[ Easy Installation ]

Floor stand or wall mounted

[ Quick Commissioning ]

One button ON/OFF  
Automatic ID assignment

[ Perfect Compatibility ]

Compatible with major PCS brands

# DATASHEET

<b>Model</b>	<b>PTN-BAT-05K-WM-LFP-300</b>
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## Performance

<b>Cell technology</b>	LFP (LiFePO4)
<b>Battery usable energy [1]</b>	5.12 kWh
<b>Nominal voltage</b>	51.2 V
<b>Operating voltage</b>	45.6 - 56.16 V
<b>Nominal output current</b>	100 A / 50 A
<b>BMS protection current</b>	110 A, 1 s

## Communication

<b>Display</b>	SOC status indicator, LED indicator
<b>Communication</b>	CAN / RS485 / RS232 / Wi-Fi (optional)

## General Specification

<b>Dimension (W*D*H)</b>	460×161.5×614 mm
	18.1×6.4×24.2 inch
<b>Weight</b>	47 kg (104 lbs)
<b>Installation</b>	Floor stand or Wall mounted
<b>Operating temperature [2]</b>	-20 to 60°C (-4 to 140°F)
<b>Environmental humidity</b>	≤ 95%RH (No condensation)
<b>Protection rating</b>	IP 20
<b>Cycle life [3]</b>	3500 Cycles or ten (10) years @ 80% DOD / 25°C / 0.5C, 70% EOL
<b>Scalability</b>	Max 15 batteries in parallel
<b>Application</b>	ON Grid / ON Grid + Backup / OFF grid
<b>Compatible inverters</b>	Refer to compatible inverter list (Compatible with major PCS brands)

## Standard Compliance

<b>Certificates</b>	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Battery pack: UN38.3 / IEC62619 / IEC61000 / UKCA (More available upon request)

## Ordering and Deliverable Part

<b>Part</b>	PTN-BAT-05K-WM-LFP battery
	PTN-BAT-05K-WM-LFP parallel cable
	PTN-BAT-05K-WM-LFP to PCS cable

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.

[2] Charge/discharge derating occurs when the operating temperature from -10°C to 5°C & 45°C to 55°C.

[3] Please refer to the Warranty Letter for applicable conditions the warranty is due whichever comes first.