

# Model HW0465020F

12 volts 20 Ah 240 Wh

## Renewed Lithium Iron Phosphate Battery

Our 240 watt-hour, 12-volt renewed lithium iron phosphate (LiFePO4) battery is the perfect replacement for traditional lead-acid in low-drain applications that demand long life, low weight and high performance. It is a direct drop in for many applications including lighting, portable energy storage, UPS and mobility devices.

This battery assembly uses lithium iron phosphate cells renewed using our patent-pending process to achieve the best combination of energy density, weight, safety and performance.

Designed to be discharged to 100% of the rated capacity, this battery is maintenance-free for life. It is less than half the weight of lead-acid, lasts more than twice as long, and has a flat voltage curve. For maximum cycle life, we recommend keeping both charge and discharge below 10 amps, charging to 13.6 volts, discharging to 12.0 volts and operating above freezing temperatures.

All of our battery assemblies include an advanced battery management system (BMS) that protects against temperature, voltage and amperage extremes to maximize battery safety and life cycle\*. They also come with a limited two-year warranty and can be returned to us at any time for end-of-life recycling.

All Higherwire batteries are designed and manufactured in Arizona.



<b>Specifications</b>			
<b>Nominal Voltage</b>	12.8 volts	<b>Chemistry</b>	Lithium iron phosphate
<b>Capacity (Ah)</b>	20 Ah	<b>Weight</b>	5.5 lb (2.5 kg)
<b>Capacity (Wh)</b>	240 Wh	<b>Dimensions (LxWxH)</b>	7.13 x 3.03 x 6.77 in (181 x 77 x 172 mm)
<b>Operating Voltage</b>	10.0 – 14.4 volts	<b>Operating Temp (Discharge)</b>	-20° – 60°C (-4 – 140°F)
<b>Recommended Voltage</b>	12.0 – 13.6 volts	<b>Operating Temp (Charge)</b>	0° – 60°C (32° – 140°F)
<b>Max Continuous Charge</b>	10 amps		
<b>Max Continuous Discharge</b>	15 amps		
<b>Max Pulse Discharge</b>	30 amps (10 seconds)		

\*Battery must be disconnected from charge and/or load to reset the BMS following a fault.

