



EndurEnergy Systems, Inc.

Battery Unit

ESP-IBU20

Integrated Residential Storage Product

Up to 20.48 kWh Energy Storage

Up to 12 kW AC Output Power



General Specifications

Dimensions (H x W x D)	83.7 x 28.4 x 14.1 in (2126 x 721 x 358 mm)	
Enclosure Weight	253.53 lb (115 kg)	
Assembly Weight*	701.95 lb (318.4 kg)	737.23 lb (334.4 kg)
Material	Steel	
Color and finish	Gray / Powder Coated	
Protection level	NEMA 3R	
Warranty	10-Year	
Compliance	UL9540, UL1973, CEC and SGIP listed / EMC tested (Only ESP-5100) / UL9540A (Only ESP-5K HL)	
Inverter Compatibility	Sol-Ark 5K / Sol-Ark 8K / Sol-Ark 12K / Sol-Ark 8K EMP / Sol-Ark 12K EMP	

*4 battery modules, enclosure and SA-12K inverter

Battery Specifications

Battery Module	4 x ESP-5100	4 x ESP-5K HL
Battery Type	Lithium Iron Phosphate (LFP)	
Nominal Voltage	51.2V	
Working Voltage	48V - 56V	48V - 57.6V
Battery Capacity	400Ah	
Nominal Battery Energy	20.48kWh	20kWh
Peak Power	20kW 3s	
Recommended C Rate	0.5	
Round Trip Efficiency	97%	
Recommended DoD	90%	
Charge Temperature Range	32 °F to 113 °F (0 °C to 45 °C)	32 °F to 122 °F (0 °C to 50 °C)
Discharge Temperature Range	14 °F to 122 °F (-10 °C to 50 °C)	14 °F to 131°F (-10 °C to 55 °C)
Life Cycles	6000	

⚡ **OUTLAST. OUTPERFORM. ENDUR™ IT ALL.** ⚡

EndurEnergy Systems, Inc.

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