

Model

IES-BATT-143R



[Overview]

Indoor battery rack with IP20 protection level, inbuild lithium-ion battery and BMS

[Easy Installation and Maintenance]

Local and remote management, standard rack&module design, front maintenance

[Safe & Reliable]

Self-developed 2-level / 3-level BMS, complex protection, safe and reliable

[High Density]

LP high-capacity Li-ion battery with aluminum shell, over 130wh/kg

[Long Lifespan]

Long cycle life, 8000 cycles *

[Cell Balancing Technology]

Active cell balancing and passive cell balancing

DATASHEET

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Performance

Battery module (Wh/V)	14.336 kWh, 51.2 V, 110 kg (242.5 lbs)
Number of modules	10
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	143.36 kWh
Nominal voltage	512 V
Operating voltage	456-561.6 V
Nominal output current	140 A / 280 A

Communication

Display	SOC status indicator, LED indicator, LCD display
Communication	Ethernet / CAN / RS485

General Specification

Dimension (W*D*H)	1164x840x1776 mm 45.8x33.1x69.9 inch
Weight	1350 kg (2976 lbs)
Operating temperature [2]	-20 to 60 °C (-4 to 140 °F)
Environmental humidity	≤ 95%RH (No condensation)
Protection rating	IP 20
Cycle life [3]	8000 Cycles @ 80% DOD / 25°C / 0.5C, 70% EOL
Scalability	Yes
Application	ON Grid / ON Grid + Backup / OFF grid
Compatible PCS	Refer to compatible PCS list

Standard Compliance

Certificates	Cell: UN38.3 / IEC62619 / UL 1642 / JET
	Pack: UN38.3 / IEC62619 / IEC61000
	System: UL 9540 (More available upon request)

Ordering and Deliverable Part

Part	IES-BATT-14.3P-F-QC
	IES-BCU-M-143H1-QC
	IES-R12

[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.