# **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**

| Model                     | IES-BATT-143R                          |  |
|---------------------------|--|--|
| 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                          |  |

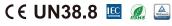
| Communication |  |
|---------------|--|
| Display       | SOC status indicator, LED indicator, LCD display |
| Communication | Ethernet / CAN / RS485                           |

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

| Ordering and Deliverable Part |                     |  |
|-------------------------------|---------------------|--|
|                               | IES-BATT-14.3P-F-QC |  |
| Part                          | IES-BCU-M-143H1-QC  |  |
|                               | IES-R12             |  |









<sup>[1]</sup> 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.