Renergy R10

Power Uninterrupted

The Renergy R10 is a battery storage solution aimed at accelerating the advent of sustainable, transparent, and clean energy. On top of that, this is realised by using second life batteries from retired electric vehicles from the roads. Home owners now enjoy whole home backup and energy independence by producing and consuming using their own energy while still being connected to the grid.

Renergy R10 contains 10kWh of energy capacity capable of 160 LRA, which would fulfil the needs of most homes. However, customers are able to scale their system further to meet their needs with up to 8 additional units.

Renergy R10 Technical Specifications

System Specifications

Model Number	**R10-2428T01**
Version	**Tesla, Founders Edition (T01)**
Battery type	DC-coupled
Nominal Battery Energy	10 kWh[1]
Battery Modules	Tesla Model S 90D, manufacture year: 2017
Nominal Battery Voltage	43.2 V
Maximum Continuous Current	110 A
Overcurrent Protection Device	120 A
Load Start Capability (1s)	160 A LRA
Scalability	Up to 8 Expansion units supported
Connectivity	Wi-Fi (2.4 Ghz), Cellular (4G[2])
Hardware Interface	Toggle Switch, USB-A for BMS, RJ45 for Power Conversion Device (PCD)
Customer Interface	Renergy Web App
Protections	Inverter precharge, fault circuit contactors

[1] Values provided for 25°C (77°F), at the beginning of life.
[2] The customer is expected to provide internet connectivity for Renergy R10; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

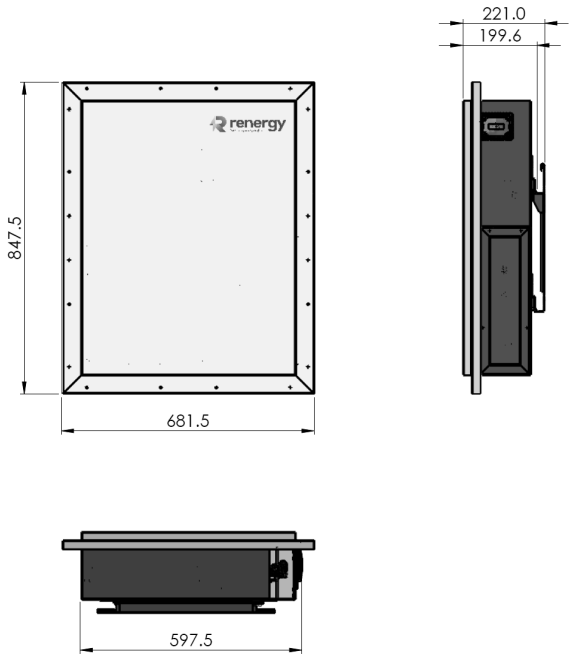
Renergy R10 Technical Specifications

Environmental Specifications

Operating Temperature	10°C to 50°C
Operating Humidity (RH)	Up to 90%, condensing
Storage Temperature	10°C to 30°C, up to 95% RH, non-condensing, State of Charge (SOC): 30% initial
Environment	Outdoor, weatherproof

Mechanical Specifications

Dimensions	681.5 (W) x 847.5 (H) x 211 (D) mm
Weight	100 kg
Mounting	Wall mount, M8 Bolt



Battery Disconnect Device Technical Specifications

Electrical Specifications

Model	Schneider Easypact EZC250H
Equipment Type	Moulded Case Circuit Breaker (MCCB)
Rated Operational Voltage	250 V DC
Rated Current	160 A at 40°C
Maximum Short-Circuit Current Rating	15 kA
Protection	Short-circuit protection, overload protection

Environmental Specifications

Operating Temperature	-25°C to 70°C
Operating Humidity (RH)	Up to 90%, condensing
Environment	Outdoor, weatherproof
IP Degree of Protection	IP55 conforming to IEC 60529

Mechanical Specifications

Dimensions	300 (W) x 250 (H) x 150 (D) mm
Weight	1 kg
Housing	Steel
Mounting	Wall mount, M4 Bolt