

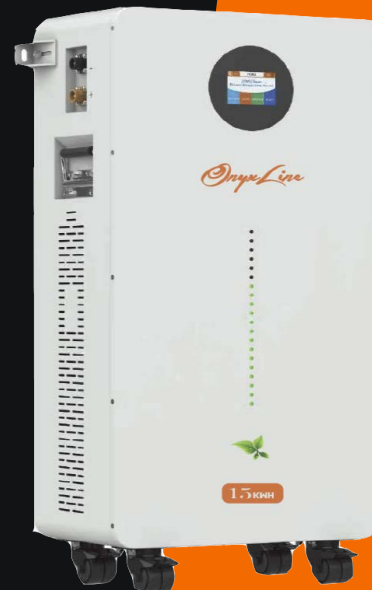


ONLY-TOWER

LiFePO4 TOWER BATTERY SERIES

51.2V • 280Ah / 314Ah • 14.4 / 16.08 kWh

High-capacity low-voltage energy storage platform for residential and light-commercial applications.



LiFePO4 GRADE A

150A MAX CURRENT

CAN / RS485 / RS232

WLAN MONITORING

ONE SERIES. TWO CAPACITY OPTIONS.

A mobile tower battery platform built around 51.2V LiFePO4 chemistry, Grade A cells, integrated BMS protection and plug-and-play communication.



ONLY-TOWER 280

280 Ah • 14.4 kWh

51.2V LiFePO4 • 16S1P
150A max charge / discharge



ONLY-TOWER 314

314 Ah • 16.08 kWh

51.2V LiFePO4 • 16S1P
150A max charge / discharge

ELECTRICAL ARCHITECTURE

Core battery characteristics and charge/discharge specification

PRODUCT DNA **Grade A LiFePO4 cells • Integrated BMS protection • Tower/mobile enclosure • Plug & Play battery interface • Compatible with most inverter brands**

PARAMETER	51.2V 280Ah	51.2V 314Ah
Rated voltage	51.2 Vdc	51.2 Vdc
Cell combination	16S1P	16S1P
Rated capacity	280 Ah	314 Ah
Energy storage	14.4 kWh	16.08 kWh
Charge voltage	56 V	56 V
Max. charge current	150 A	150 A
Max. discharge current	150 A	150 A
Discharge cut-off voltage	43.2 Vdc	43.2 Vdc
Charge cut-off voltage	58.4 Vdc	58.4 Vdc

14.4 kWh

ONY-TOWER 280

280Ah capacity on a 51.2V platform

16.08 kWh

ONY-TOWER 314

314Ah capacity on a 51.2V platform

OPERATING ENVIRONMENT & SAFETY

Temperature, enclosure and battery-system parameters

0 to 50°C

CHARGE RANGE

60 +/- 25% relative humidity

-20 to 50°C

DISCHARGE RANGE

60 +/- 25% relative humidity

IP20

ENCLOSURE

Indoor tower configuration

ENVIRONMENT

PARAMETER	51.2V 280Ah	51.2V 314Ah
Charge temperature	0°C to 50°C @ 60 +/- 25% RH	0°C to 50°C @ 60 +/- 25% RH
Discharge temperature	-20°C to 50°C @ 60 +/- 25% RH	-20°C to 50°C @ 60 +/- 25% RH
Storage temperature	-20°C to 50°C @ 60 +/- 25% RH	-20°C to 50°C @ 60 +/- 25% RH

MECHANICAL

PARAMETER	51.2V 280Ah	51.2V 314Ah
IP class	IP20	IP20
Material system	LiFePO4	LiFePO4
Case material	Metal	Metal
Case type	Tower	Tower
Pack dimensions (L x W x H)	328 x 695 x 866 mm	328 x 695 x 866 mm
Net weight	kg 109	115 kg
Gross weight	kg 131	135 kg

SLIM & MOBILE DESIGN The source datasheet specifies a tower-type metal enclosure with a 328 x 695 x 866 mm .footprint and mobile configuration for space-efficient installation

COMMUNICATION & CERTIFICATION

Connectivity, monitoring and source-listed certifications

COMMUNICATION

CANBus • RS485 • RS232

Protocol support is listed as optional in the source datasheet.

MONITORING

WLAN

Wireless monitoring connection

BUILT FOR PRACTICAL ENERGY STORAGE

PERFECT COMPATIBILITY

Compatible with most inverter brands on the market.

GRADE A CELLS

Onyx Line states the use of guaranteed brand-new Grade A cells.

FAST INSTALLATION

Plug & Play battery interface for streamlined installation.

BMS PROTECTION

Integrated BMS and high-level protection architecture.

SOURCE-LISTED CERTIFICATIONS

PACK

UN38.3 • MSDS

CELL

UN38.3 • MSDS • IEC62619 • CE • UL1973 • UL2054

Technical values in this unified Onyx Line datasheet are reproduced from the supplied ONY-TOWER 280Ah / 314Ah source document. No missing technical values have been inferred.

