



PVX-(107-241) Series Smart String ESS

Battery Data Attributes



EN: Operative manual

**APPLY HERE
THE COMMUNICATION
IDENTIFICATION LABEL**

In addition to what is explained in this quick installation guide, the safety and installation information provided in the product manual must be read and followed. The technical documentation for the product is available at the website.
The device must be used in the manner described in the manual. If this is not the case the safety devices guaranteed by the inverter might be ineffective.

Battery Data Attributes

Attribute	PVX-241	PVX-215	PVX-215-HV	PVX-107-HV
Rated capacity	314 Ah	280 Ah	280 Ah	280 Ah
Capacity fade	100% – Pack SOH ¹⁾ %	100% – Pack SOH ¹⁾ %	100% – Pack SOH ¹⁾ %	100% – Pack SOH ¹⁾ %
Original power capability	60288 W	53760 W	53760 W	53760 W
Power capability fade	(Original power capability – Remaining power capability ¹⁾ / Original power capability x 100%	(Original power capability – Remaining power capability ¹⁾ / Original power capability x 100%	(Original power capability – Remaining power capability ¹⁾ /Original power capability x 100%	(Original power capability – Remaining power capability ¹⁾ /Original power capability x 100%
Maximum permitted battery power	26880 W	26880 W	26880 W	53760 W
Initial round trip energy efficiency	94%	94%	94%	91%
Round trip energy efficiency at 50% of cycle life ²⁾	94%	94%	94%	91%
Round trip energy efficiency fade ²⁾	(Initial round trip energy efficiency – Remaining round trip energy efficiency ¹⁾ /Initial round trip energy efficiency x 100%	(Initial round trip energy efficiency – Remaining round trip energy efficiency ¹⁾ /Initial round trip energy efficiency x 100%	(Initial round trip energy efficiency – Remaining round trip energy efficiency ¹⁾ /Initial round trip energy efficiency x 100%	(Initial round trip energy efficiency – Remaining round trip energy efficiency ¹⁾ /Initial round trip energy efficiency x 100%
Initial internal resistance on battery cell level	0–0.6 mΩ	0–0.6 mΩ	0–0.6 mΩ	0–0.6 mΩ
Initial internal resistance on battery pack level	40 mΩ	40 mΩ	40 mΩ	40 mΩ
Internal resistance increase on battery pack level	(Current internal resistance ¹⁾ – Initial internal resistance ¹⁾ /Initial internal resistance x 100%	(Current internal resistance ¹⁾ – Initial internal resistance ¹⁾ /Initial internal resistance x 100%	(Current internal resistance ¹⁾ – Initial internal resistance ¹⁾ /Initial internal resistance x 100%	(Current internal resistance ¹⁾ – Initial internal resistance ¹⁾ /Initial internal resistance x 100%
Expected lifetime (number of charge-discharge cycles)	8500	8500	8500	5000
Expected lifetime (calendar years)	15 years	15 years	15 years	13 years

Note

- 1) This parameter can be viewed in the battery management system.
- 2) This parameter is estimated from the initial round trip energy efficiency and test data.



For more information please contact your local FIMER representative or visit:

fimer.com

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. MA Solar Italy srl does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of MA Solar Italy srl. Copyright© 2025 MA Solar Italy srl. All rights reserved.