

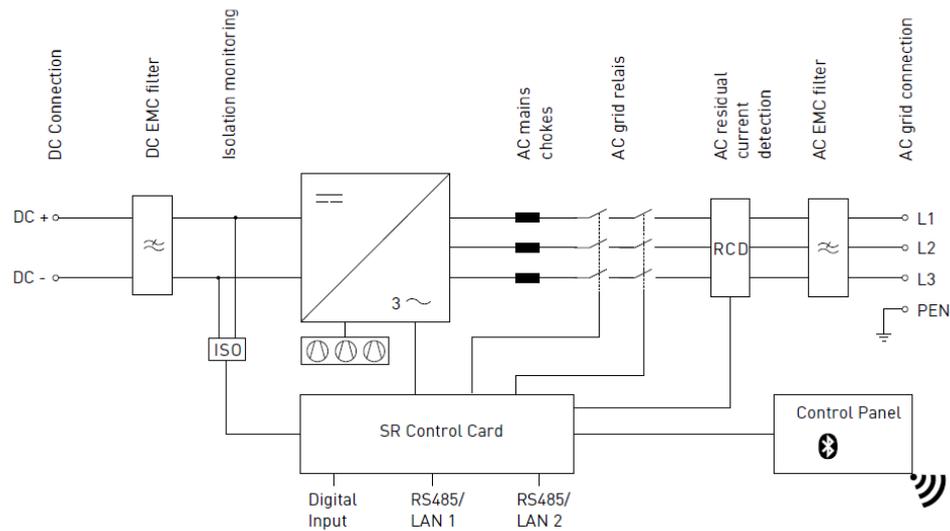
<b>Product Certificate Number</b>	<b>230384-CER</b>	
<b>Applicant</b>	Pramac Storage Systems GmbH Marktstraße 185 D-72793, Pfullingen, Germany	
<b>Series</b>	PBI	
<b>Models</b>	PBI 88K PBI 88K-PC PBI 50K PBI 50K-PC	
<b>Type of generating unit</b>	Battery Inverter	
<b>Technical Data</b>	See page 2.	
<b>Software version (*)</b>	310-01-yy-xx	
<b>Hardware version</b>	ÄI02 for PBI 50K, PBI 50K-PC	ÄI03 for PBI 88K, PBI 88K-PC
<b>Network connection codes</b>	<p><b>EN 50549-1:2019</b> Requirements for generating plants to be connected in parallel with distribution networks – Part 1: Connection to a LV distribution network – Generating plants up to and including Type B.</p> <p><b>EN 50549-2:2019</b> Requirements for generating plants to be connected in parallel with distribution networks – Part 2: Connection to a MV distribution network – Generating plants up to and including Type B.</p>	
<p>Having assessed the report number: 230384-1-TR performed by CERE (Accredited Laboratory N° 1376 / LE2560) based on the requirements of the EN ISO/IEC 17025: 2017. The above-mentioned generating unit complies with the requirements of the:</p> <p><b>EN 50549-1:2019</b> Requirements for generating plants to be connected in parallel with distribution networks – Part 1: Connection to a LV distribution network – Generating plants up to and including Type B.</p> <p><b>EN 50549-2:2019</b> Requirements for generating plants to be connected in parallel with distribution networks – Part 2: Connection to a MV distribution network – Generating plants up to and including Type B.</p> <p>This certification is according the CERE internal process PET-CERE-30 Rev 12, that defines the certification scheme, based on the requirements of the EN ISO/IEC 17065:2012. For this certification process the conformity assessment activities were based on:</p> <ul style="list-style-type: none"> <li>• Testing of production samples selected by CERE.</li> <li>• Audit of quality system according ISO 9001 with certificate number: 707129833 issued by a certification body accredited according EN ISO/IEC 17021.</li> </ul> <p>(*) see note in Technical data.</p>		
<p>Madrid, February 27, 2024. This certificate is valid until February 26, 2029.</p> <p style="text-align: right;">Miguel Martínez Lavín Certification Director</p>		



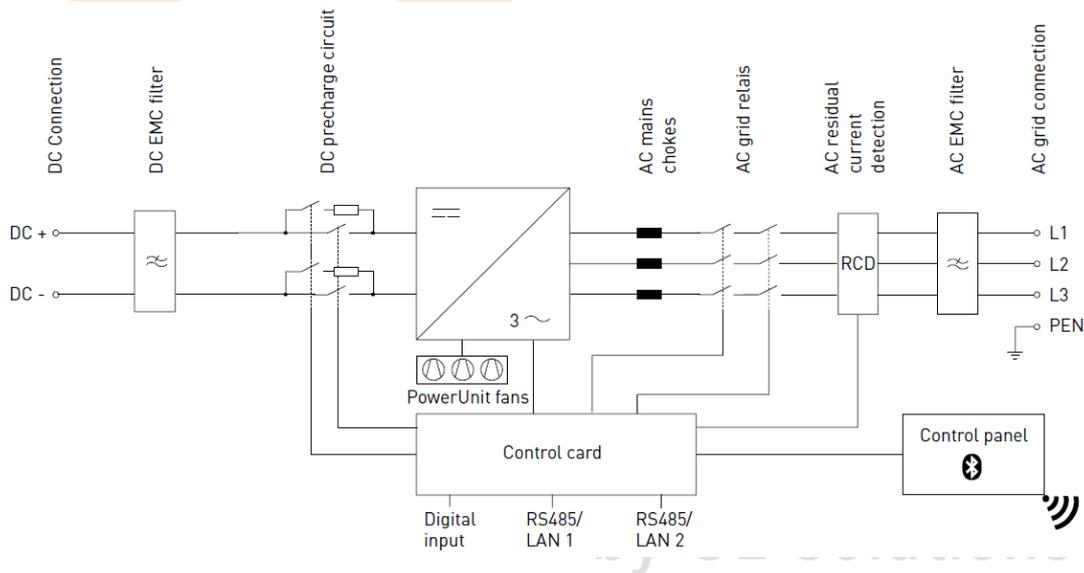
**Technical data**

	PBI 88K / PBI 88K-PC	PBI 50K / PBI 50K-PC
<b>AC SIDE</b>		
Apparent power (kVA)	88	50
Rated AC voltage 3-phase (Uac (V))	400	
AC voltage range (V)	180 - 528	
Rated frequency / Frequency range (Hz)	50, 60 / 45 – 65	
AC grid connection	3 phases, PE	
Max. AC current ( <i>I</i> <sub>max</sub> (A))	128	
Nominal Power factor	1	
Max AC short circuit current ( <i>I</i> <sub>arms</sub> )	64 (3 period average)	
Inrush current (peak (A) / duration (ms))	25 / 0.5	
<b>DC SIDE</b>		
DC-voltage range ( <i>U</i> <sub>n</sub> (V)), at nominal power	650 – 900	
DC-voltage range ( <i>U</i> <sub>max</sub> (V)), maximum	620 – 1000	
Nominal voltage DC (V)	720	
Maximum DC-current ( <i>I</i> <sub>max</sub> (A))	153	87 <sup>(1)</sup>
Notes:		
(1) with the exception that for 2 <sup>nd</sup> life applications, the max. DC-current can also be up to 153 A.		
Both models have the option of having a DC precharge circuit. Their internal designation is as follows:		
<ul style="list-style-type: none"> <li>- PBI 88K: <ul style="list-style-type: none"> <li>o without a DC precharge circuit: PBI 88K.</li> <li>o with a DC precharge circuit: PBI 88K-PC.</li> </ul> </li> <li>- PBI 50K: <ul style="list-style-type: none"> <li>o without a DC precharge circuit: PBI 50K.</li> <li>o with a DC precharge circuit: PBI 50K-PC.</li> </ul> </li> </ul>		
(*) Designations for the software version nomenclature: 310 – zz – yy – xx		
<ul style="list-style-type: none"> <li>- 310: firmware of inverter-family “NextGen”.</li> <li>- zz: for this certification set as 01.</li> <li>- yy: minor, counter for added features (specific country presetting, new minor functions).</li> <li>- xx: counter for bugfixes.</li> </ul>		
Changes in counters “yy” and “xx” do not affect the present certification.		

Electrical Diagram of PBI Series without DC precharge circuit (PBI 80K & PBI 50K)



Electrical Diagram of PBI Series with DC precharge circuit (PBI 80K-PC & PBI 50K-PC)



The sample selected to test was representative of the production.

The sample was selected in:

REFU Hungary Kft.  
2030 Erd  
Turul Straße 10  
Hungary

Sample Report Number:

230384-TM

**RECORD OF CHANGES**

Revision	Reason of the modification	Modification	Date
0	Initial version		27/02/2024