

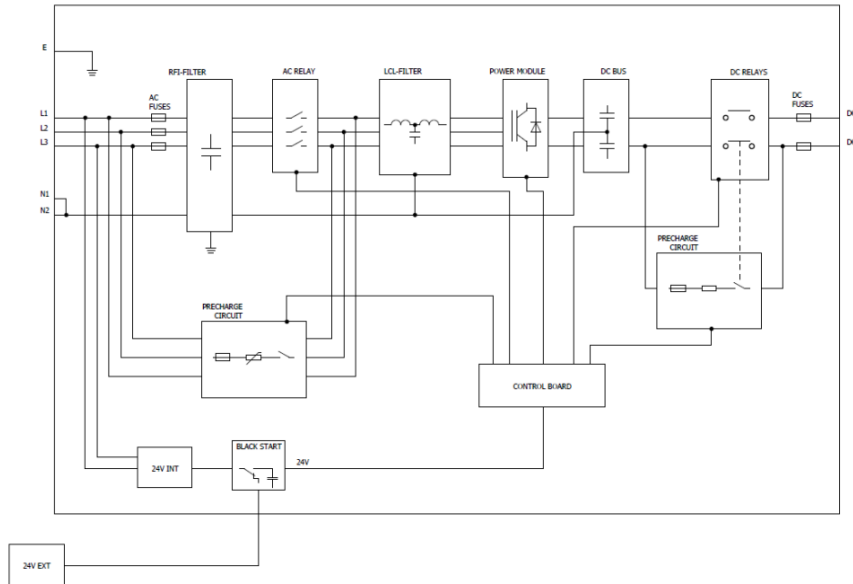
<b>Product Certificate Number</b>	<b>21614-1-CER</b>
<b>Applicant</b>	Hitachi Energy Belgium N.V Allée Centrale, 10 – Z.I. Jumet B-6040 Charleroi, Belgium
<b>Series</b>	PQstorl Series
<b>Models/</b>	PQstorl-M PQstorl-WM PQstorl-C
<b>Firmware version/</b>	uC 1.0 Rev20 / DSP V56.2 rev77
<b>Type of generating unit</b>	Battery Energy Storage Inverter
<b>Technical Data</b>	See page 2
<b>VDE application guide</b>	<b>VDE-AR-N 4105, 2018-11.</b> Generators connected to the low-voltage distribution network –Technical requirements for the connection to and parallel operation with low-voltage distribution networks.
<p>Having assessed the test report number: 21614-1-TR and performed by CERE (Accredited Laboratory N° 1376/LE2560) based on the requirements of the EN ISO/IEC 17025:2017.</p> <p>The above-mentioned generating unit complies with the requirements of the:</p> <p><b>VDE-AR-N 4105, 2018-11.</b> Generators connected to the low-voltage distribution network –Technical requirements for the connection to and parallel operation with low-voltage distribution networks.</p> <p>This certification is according to the CERE internal process PET-CERE-29 Rev 03 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: BE05/051523 issued by a certification body accredited according EN ISO/IEC 17021.</li> <li>• Inspection of the manufacturing process.</li> </ul>	
<p>Madrid, December 02, 2022. This certificate is valid until December 02, 2027</p> <p style="text-align: right;">Miguel Martínez Lavin Certification Director</p>	

**Technical specifications:**

**PQstorl:**

Specification	PQstorl - M	PQstorl - WM	PQstorl - C
	Module	Wall-mounted	Standalone cabinet
<b>Electrical characteristics</b>			
Connection method	3-wires		
Network voltage (+/-10%)	208 - 415 V		
Network frequency (+/-5%)	50		
Rated power (at 400 V)	30 kW		
Line current rating per base unit (A)	43 A	Full cubicle: 43 A... 688 A	
Inverter technology	Three level inverter		
Equipment losses	<2% of the equipment power typically		
<b>Inverter characteristics</b>			
DC voltage (min)	620 V for 3W application (note 1) Note 1: Limited High voltage ride through support at lower DC voltage		
DC voltage (max)	830 V (890 V with reduced power)		
<b>Programming/ communication</b>			
Wi-Fi communication	Webserver on smartphone or computer for simple diagnostics and parameters setup		
USB	With dedicated optional software (servicing / programming)		
HMI	7-inch color TFT screen (800 x 480 pixels) 198 x 141 x 40 mm IP65 front side / IP20 backside CAN 2B (internal) - RJ12 Ethernet (Modbus TCP) - RJ45 USB 2.0		
Digital I/O on HMI	2 insulated digital input - +24 V (AC or DC) 6 digital NO output - 250 Vac/ 5A (one common polarity), dry contacts		

Electrical Diagram of PQstor1



Manufacturer:

Hitachi Energy Belgium N.V.  
Allée Centrale 10 – Z.I. Jumet.  
6040, Charleroi, Hainut, Belgium

The sample selected to test was representative of the production. The sample was selected in:

Hitachi Energy Belgium N.V.  
Allée Centrale, 10 – Z.I. Jumet B-6040 Charleroi,  
Belgium

Sample Report Number:

21614-TM

The inspection of manufacturing process was performed in manufacture facilities:  
On December 01, 2021

Hitachi Energy Belgium N.V.  
Allée Centrale, 10 – Z.I. Jumet B-6040 Charleroi,  
Belgium

Inspection Report Number:

21146-21-1-IF

**RECORD OF CHANGES**

Revision	Reason of the modification	Modification	Date
0	Initial version / Update of certificate 20807-2-CER		02/12/2022