

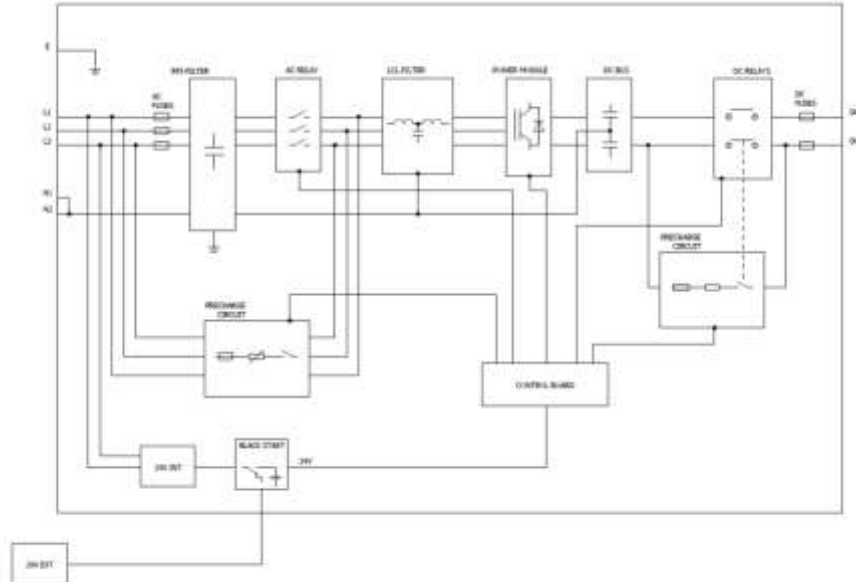
Product Certificate Number	20618-3-CER
Applicant	ABB Power Grids Belgium n.v. – Power Quality Products Allée Centrale, 10 – Z.I. Jumet B-6040 Charleroi, Belgium
Series	PQstorl Series
Models	PQstorl-M PQstorl-WM PQstorl-C
Type of generating unit	Battery Energy Storage Inverter
Technical Data	See page 2
Software version	v0.1-Rev10, / DSP V56.1 rev 34
Network connection code	ENA-EREC G99 Issue 1 Amendment 5 November 2019. Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019.
<p>Having assessed the report number: 20618-3-TR performed by CERE (Accredited Laboratory N° 5314.01) 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>ENA-EREC G99 Issue 1 Amendment 5 November 2019. Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019.</p> <p>This certification is according the CERE internal process PET-CERE-09 Rev 27 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"> • Testing of production samples selected by CERE. • Audit of quality system according ISO 9001 with certificate number: BE05/051523 issued by a certification body accredited according EN ISO/IEC 17021. • Inspection of the manufacturing process. 	
<p>Madrid, August 05, 2020. This certificate is valid until August 05, 2023</p> <p style="text-align: right;">Miguel Martínez Lavin Certification Manager</p>	

Technical data

PQstorl:

Specification	PQstorl - M	PQstorl - WM	PQstorl - C
	Module	Wall-mounted	Standalone cabinet
Electrical characteristics			
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)	40 A	Full cubicle: 40 A... 600 A	
Inverter technology	Three level inverter		
Modularity	Up to 16 modules can be combined. Different module ratings are allowed		
Equipment losses	<2% of the equipment power typically		
Inverter characteristics			
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)		
Response time	<1 network cycle		
Programming/ communication			
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 PQstorl



The sample selected to test was representative of the production.

s.a ABB Power Grids Belgium n.v. – Power Quality Products
Allée Centrale 10 – Z.I. Jumet.
6040, Charleroi, Hainut, Belgium

The sample was selected in:

ABB Power Grids Belgium n.v.
CC8701-BEPGJ c/o ABB Business Services GmbH Kallstadter Str. 1 / 68129 Mannheim, Germany.

Sample Report Number:

20461-TM/

The inspection of manufacturing process was performed in:
On December 12, 2019

s.a ABB Power Grids Belgium n.v. – Power Quality Products
Allée Centrale 10 – Z.I. Jumet.
6040, Charleroi, Hainut, Belgium

Inspection Report Number:

20303-19-1-IF

RECORD OF CHANGES

Revision	Modification / Changes	Date
0	Initial version	05/08/2020

