





Product Certificate Number	21614-3-CER	
Applicant	Hitachi Energy Ltd. Allée Centrale 10. Z.I. Jumet B-6040 Charleroi, Jumet Belgium	
Series	PQstorl Series	
Models	PQstorl-M PQstorl-WM PQStorl-C	
Type of generating unit	Energy storage Inverter	
Technical Data	See page 2	
Software version	SW: uC 1.0 Rev20/DSP V56.2 rev77	
Grid connection code	Engineering Recommendation G99 Issue 1 – Amendment 9- 3 October 2022: Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019. Type A.	

Having assessed the report number: 21614-3-TR performed by CERE (Accredited Laboratory N^o 5314.01) based on the requirements of the EN ISO/IEC 17025: 2017.

The above-mentioned generating unit complies with the requirements of the:

Engineering Recommendation G99 Issue 1 – Amendment 9- 3 October 2022: Requirements for the connection of generation equipment in parallel with public distribution networks on or after 27 April 2019. Type A.

This certification is according to the CERE internal process PET-CERE-09 Rev 35, 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:

- Testing of production samples selected by CERE.
- Audit of quality system according to ISO 9001 with certificate number: BE05/051523 issued by a certification body accredited according to EN ISO/IEC 17021.
- · Inspection of the manufacturing process.

This certificate cancels and supersedes the certificate number 20807-3-CER-E1 issued on March 9, 2021.

Madrid, January 30, 2023. This certificate is valid until January 30, 2028

Miguel Martínez Lavin Certification Director





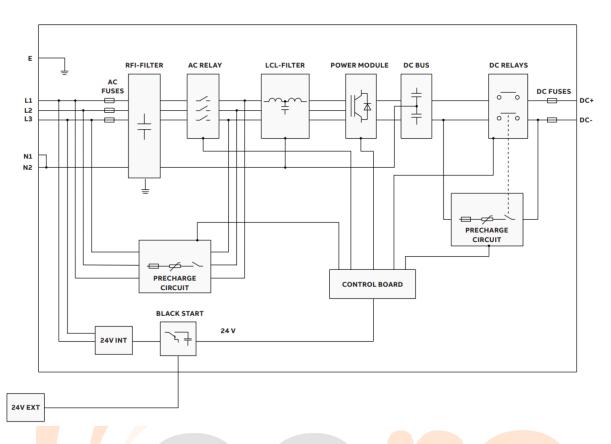
Technical data

Specifications	PQstorl – M (module)	PQstorl – WM (Wall mounted)	PQstorl – C (Standalone cabinet)		
Electrical characteristics					
AC grid tied connection side					
Connection method	3P3W+PE				
Network voltage (+/ - 10%)	208 - 415 V				
Network frequency (+/ - 5%)	50/60Hz				
Rated power (at 400 V)		30 kW			
Line current rating per	43 A Full cubicle: 43 A 688 A				
base unit (A)			Full cubicle: 43 A 688 A		
DC Energy souce connection side					
DC voltage (min)	620 V for 3 W application (note 1)				
	Note 1: Limited High voltage ride through support at lower DC voltages				
DC voltage (max)	830 V (890 V with reduced power)				
DC current	52A				
Interface / communication					
Wi-Fi c <mark>ommun</mark> ication	Webserver on smartphone or computer for simple diagnostics and parameters setup				
USB	With dedicated optional software (servicing/ programming)				
RJ12	For CAN bus communication between HMI and other modules				
CT inputs	3 ph CT measurements (class 1.0 or better, 15 VA)				
2x <mark>24</mark> Vdc inp <mark>u</mark> ts	1 for Emergency stop				
230Vac Relay output	1 for external supply For control of external grid contactor/breaker		reaker		
Wi-Fi communication	Webserver on smartphone or computer for simple diagnostics and parameters setup				
	Dimensions (W x D x H)	78 x 25 x			
	IP protection	IP 2	_		
PQconnecT	Communications	CAN: RJ12 - 500 kbit/s or 1 Mbit/s Ethernet: 10/100 Mbit, full or half-duplex,			
	Communications	HP Auto-MDIX support			
	I/O	1 relay output, normally open, 5 A / 30 VDC			
	7-inch color TFT screen (800 x 480 pixels)				
	Dimensions (W x D x H) 198 x 141 x 40 mm				
HMI (optional)	IP protection	IP65 front side / IP 20 backside			
(Communications	CAN 2B (internal) (Modbus TCP) –	RJ45 USB 2.0		
	Digital I/O on HMI	2 insulated digital inputs - +24 V (AC or DC) 6 digital NO outputs – 250 Vac/ 5 A (one common polarity), dry contacts			





Electrical Diagram of PQstorl:



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. 6040, Charleroi, Hainut, Belgium

Sample Report Number:

21614-TM

The inspection of manufacturing process was performed in: On November 30, 2022

Hitachi Energy Belgium N.V.

Allée Centrale, 10 – Z.I. Jumet B-6040 Charleroi,

Belgium

Inspection Report Number:

60028-22-1-IF

RECORD OF CHANGES

Revision	Modification changes	Date
0	Initial version/Update of certificate 20807-3-CER-E1 due to software changes and update of the standard version.	30/01/2023