



Certificate of Compliance

Certificate: 80141471

Master Contract: 274187

Project: 80141471

Date Issued: 2023-04-12

Issued To: Pylon Technologies Co., Ltd.
5th Floor, No. 71-72, Lane 887
Zu Chongzhi Road
Zhangjiang Hi-Tech Park
Pudong District, Shanghai, 201203
China

Attention: Lanqiang Li

The products listed are eligible to bear the CSA Mark shown with adjacent indicator 'US' for US only.

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Issued by: Ian Chen
Ian Chen

PRODUCTS

CLASS - C3701 82 - BATTERIES - Battery System for use in Stationary Applications - Certified to US Standards

Lithium-ion Battery System for use in stationary application, Model Force-H1-48/zzz-V2(zzz=96~384, in step of 48). See below table for details.



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Electrical Ratings:

Battery System Model	Battery System Module Ratings					Battery Module	Battery Controller Model
	Nominal Voltage, Vdc	Normal Capacity, Ah	Short Circuit Current/Duration, A/mS	Battery Pack System Configuration	Enclosure IP Rating		
Force-H1-48/96-V2	96	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)2S	IP55	FH48074	FC0500-40S-V2
Force-H1-48/144-V2	144	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)3S	IP55	FH48074	FC0500-40S-V2
Force-H1-48/192-V2	192	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)4S	IP55	FH48074	FC0500-40S-V2
Force-H1-48/240-V2	240	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)5S	IP55	FH48074	FC0500-40S-V2
Force-H1-48/288-V2	288	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)6S	IP55	FH48074	FC0500-40S-V2
Force-H1-48/336-V2	336	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)7S	IP55	FH48074	FC0500-40S-V2
Force-H1-48/384-V2	384	74Ah	2000A/3.5ms	((2P4S)3S+2P3S)8S	IP55	FH48074	FC0500-40S-V2



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Battery Module Model	Battery Module Rating				Battery Cell Model	BMS Model
	Nominal Voltage, Vdc	Rated Capacity, kWhr	Battery Pack configuration	Enclosure IP/Type Rating		
FH48074	48	3.552	(2P4S)3S+2P3S	N/A	PF37M	MMCB SP02

Manufacturer's Specified Charging Parameters for Battery System

Battery System Model	Temperature Range, °C	Normal Charging Voltage, Vdc	Normal Charging Current, A	Maximum Charging Voltage, Vdc	Maximum Charging Current, A
Force-H1-48/384-V2	-10 to 55	426	37	432	40

Manufacturer's Specified Discharging Parameters for Battery System

Battery System Model	Temperature Range, °C	End of Charging Voltage, Vdc	Normal Discharging Current, A	Maximum Discharging Current, A
Force-H1-48/384-V2	-10 to 55	324	37	40



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Conditions of Acceptability:

1. The battery module with its intended BMS control box FC0500-40S-V2 has been tested according to the functional-safety requirements of UL 1973:2022, Third Edition. Solid state circuits and software controls relied upon as the primary safety protection, have been evaluated to by CSA Group to meet requirement of this standard. Any change to the BMS including to its software and electronic controls required additional evaluation by CSA Group.
2. The enclosure was evaluated only to establish an IP rating of IP55 with the Standard for Degrees of Protection Provided by Enclosure (IP Code) IEC 60529.
3. Product is evaluated for being used near marine environments, with a severity level of 2 salt fog condition according to IEC 60068-2-52.
4. Corrosion due to electrochemical action is to be determined for conductive parts in contact with terminals when subjecting to the installation of the end products.
5. Equipment Application Location: Stationary
6. Access Location: Operator Accessible.
7. The installation was not evaluated. The battery system shall be installed in accordance with NFPA 70 or CSA C22.1 (Canadian Electric Code) or other applicable installation code.
8. Overvoltage Category(OVC): 2
9. Pollution Degree(PD): 3
10. Altitude for Operation: Up to 4000 m



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APPLICABLE REQUIREMENTS

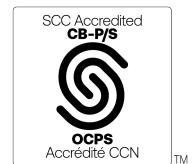
UL 1973:2022, Batteries for Use in Stationary and Motive Auxiliary Power Applications, Edition 3, Issue Date 02/25/2022

MARKINGS

See CSA report.

Notes:

Products certified under Class C370112, C370182 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80141471	2023-04-12	ANSI/CAN/UL 1973:2022 certification Original certification for battery system model Force-H1-48/zzz- V2(zzz=96~384, in step of 48) to UL 1973 3rd edition under CSA WMTC program.