



Technical Specification for PF2408X (Confidential)

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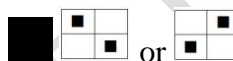
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1 INTRODUCTION

This document specifies the requirements for PF2408X for mobility market, it is a natural-cooled model without fan. Below dip-switches symbols illustrate the setting of two types of commonly-used charging algorithms, the default setting is marked with “■”.



CC+CV+Equalization+Float



CC+CV+Float

Below product pictures are for reference only, it is based on the standard specification sheet, physical product might have minor change subject to customer's specific request.



2 DOCUMENT HISTORY

Table 2-1 Document History

Version	Date	Change record	Creator
V.01	20.10.15	Initial version	PowerFirst
V.02	15.03.16	Second version	PowerFirst
V.03	20.07.16	Third version	PowerFirst

3 SPECIFICATION

Table 3-1 Specification

No	Item	Technical specification	Remark
1	Rated input voltage	100 -240 VAC +/-10%	Universal wide range
2	AC frequency	50-60Hz	Universal
3	Nominal output voltage	24V	
4	Bulk charge (CC)	8A	Constant Current

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Tel: +86 755 28441619 / Email: marketing@epowerfirst.com Web: www.epowerfirst.com**Technical Specification for PF2408X (Confidential)**

No	Item	Technical specification	Remark
5	Absorption charge (CV)	27.6~28.8V (2.3~2.4vpc)	Constant Voltage
6	Equalize charge (CV)	28.8~29.2V (2.4~2.43vpc) (Optional)	Constant Voltage
7	Float charge	26.88~27.12V (2.24~2.26vpc)	
8	Peak efficiency	87% @220VAC/24VDC, 85% @110VAC/24VDC	DC connector end
9	Surface temperature	≤41℃	Ambience ≤25℃
10	Inhibit function	Output Pin 2 shorted with Pin 3	XLR connector
11	Charge algorithms	Two charge algorithms set by dip-switches	IUUA set as default
12	Enclosure	IP21	
13	Short circuit protection	Short circuit protection should automatically recover after removing the condition	
14	Reverse polarity protection	Reverse polarity protection should automatically recover after removing the condition	
15	Additional protection	Sparks protection AC surge protection, Over temperature protection	
16	SAFETY/EMC/ROHS	CE_LVD EN60335-2-29, EN60601-1,UL60601-1, CB,RCM CE_EMC EN55011, EN60601-1-2,FCC ISO7176-14,15,21,25 REACH: (EC) No 1907/2006 by SGS ROHS: Directive 2011/65/EU by SGS	TUV SUD NEMKO
17	Output definition & connector (Customizable)	 View is looking into the plug Minus— Inhibit + Plus XLR Male Connector Pin 1 Positive Pin 2 Negative Pin 3 Inhibit (tied to negative)	Cable:2*1.5mm ² *1.5m Connector: 3Pin XLR
18	AC input cable / connector (Customizable)	STANDARD C18  	Cable length: 1.8m



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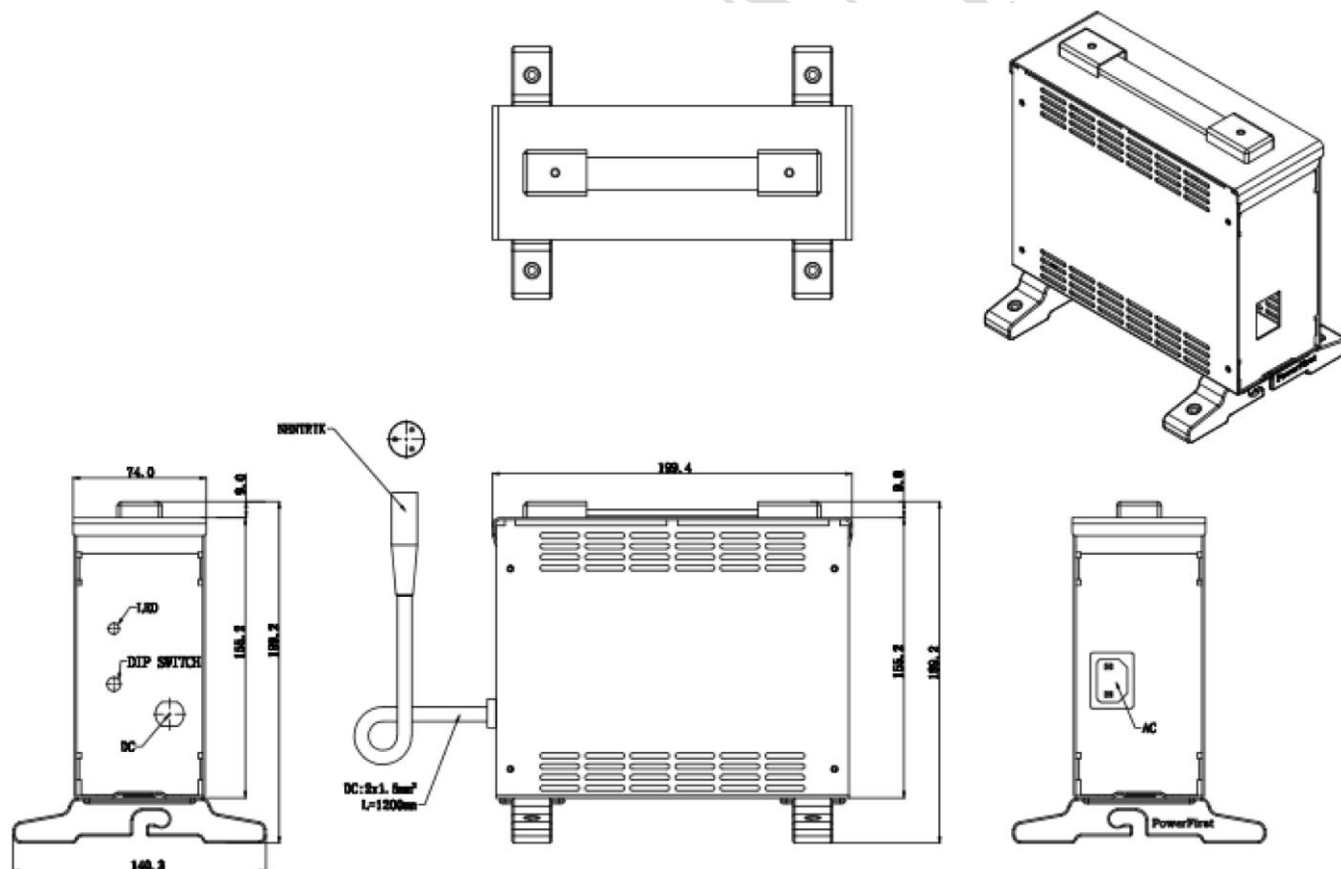
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No	Item	Technical specification	Remark
19	LED instruction	Yellow: Power On / Off Green Flash: Standby Orange: Charging Orange Flash: Pre-charge Green & Orange Flash: 80% charged Green: Fully charged Red Flash: Fault	
20	Cooling method	Natural convection cooled	Without fan
21	Mechanical fixing	Portable or wall-mounted	
22	Dimensions	L199 x W140 x H189 mm	
23	Weight	1.7Kg	Maybe some tolerance
24	Color	Black	

4. PRODUCT OUTLINE DRAWING



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5. CHARGING ALGORITHM

