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A Global Leader in Charger Manufacture

PowerFirst Technology Company Limited

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Technical Specification for PF2408 & PF2410 (Confidential)

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1 INTRODUCTION

This document specifies the requirements of Battery charger for mobility market sealed series PF24×× with derivative models of PF2408 and PF2410. The charging curve is pre-set in the factory. A factory default set charging algorithm will be settled down per customer's primary requirement, and we'll clearly marked as " \blacksquare ".

■ IUUa for MK Gel & AGM batteries

- □ IUIa-GEL for Exide-Sonnenschein GEL batteries
- □ IUUa for Generac GEL and AGM batteries
- □ Algorithm for customized application

Product picture (For reference only per the standard specification sheet, physical product maybe different subject to customer's specific request):







2 DOCUMENT HISTORY

Table 2-1 Document History

| Version | Date | Change record | Creator |
|---------|----------|---------------------------|------------|
| V.01 | 20.03.06 | 1 st version | PowerFirst |
| V.02 | 18.05.11 | 2 nd version | PowerFirst |
| V.03 | 23.10.15 | 3 rd . 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 | CC | 8A / 10A | |



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| No | Item | Technical specification Technical specification | Remark |
|-----|--|--|----------------------------------|
| 5 | CV | 29.2V (2.43Vpc) | |
| 6 | Floating charge voltage | 27.6V (2.30Vpc) | |
| 7 | Peak Efficiency | 93% @220VAC/24VDC, 91% @110VAC/24VDC | |
| 8 | Inhibit Function | | XLR connector |
| | | Short circuit protection should automatically | |
| 9 | Short circuit protection | recover after removing the condition | |
| 10 | Reverse polarity protection | Reverse polarity protection should automatically | |
| 10 | Reverse polarity protection | recover after removing the condition | |
| 1.1 | A 1122 1 | Sparks protection | |
| 11 | Additional protection | AC surge protection, | |
| | | Over temperature protection CE (EU) | |
| | | EN60601-1 by TUV | |
| | | EN60335-2-29 by TUV | |
| | | EN60601-1-2, EN61000-3, ISO7176-21 by Nemko | |
| 12 | SAFETY/EMC/ROHS | UL (USA & CANADA) | |
| 12 | SAPET I/EMC/ROHS | UL 60601-1 by TUV | |
| | | CAN/CSA-C22.2 NO.60601-1 by TUV | |
| | | DEACH, (EC) N- 1007/2006 by CCS | |
| | | REACH: (EC) No 1907/2006 by SGS ROHS: Directive 2011/65/EU by SGS | |
| | | View is looking into the plug | |
| | | Minus— | |
| | | Inhibit 100 | Cable:2*1.5mm ² *1.2m |
| 13 | Output definition & connector (Customizable) | | |
| | | + Plus XLR Male Connector | Connector: 3Pin XLR |
| | | Pin 1 Positive Pin 2 Negative | |
| | | Pin 3 Inhibit (tied to negative) | |
| | A.C. imput ashle / as an aster | STANDARD C18 | |
| 14 | AC input cable / connector (Customizable) | | Cable length: 1.8m |
| | (Customizable) | | |
| | | LEDs controls and indicators: | |
| | | LEDS controls and indicators. | |
| | | LED color: Y G O R | |
| | LED instruction | | |
| | | 30% 50% 70% 85% 100% Power Alar | m |
| | | 7///// On/off | |
| 15 | | | |
| | | Y O Yellow on - Battery charging capacity | |
| | | G O Green on - Fully charged | tonorational |
| | | O Orange flash + no yellow LED on - Charger self-test fail - no Orange on but no yellow LED on - Charger not connected to | (1) |
| | | Orange on + Yellow on - Normal charging | |
| | | R O Red flash - Battery connected in wrong polarity Red on - Low battery voltage or Wrong battery or Bad batter | y |
| | | 20 (10 10 10 10 10 10 10 10 10 10 10 10 10 1 | |



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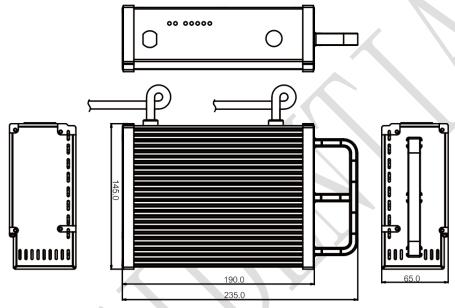
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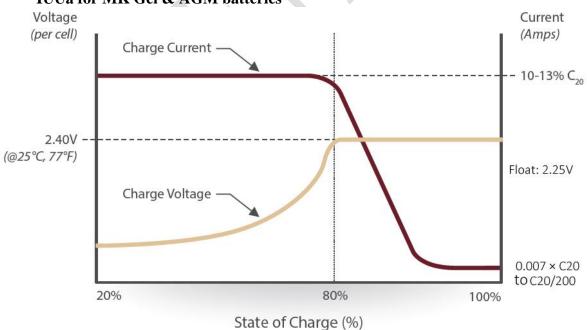
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| No | Item | Technical specification | Remark |
|----|-------------------|---|----------------------|
| 16 | Cooling method | Sealed, without fan, cooled via heat sink | |
| 17 | Mechanical fixing | Portable for off-board application | Customizable |
| 18 | Dimensions | L190 x W145 x H65 mm | |
| 19 | Weight | 2Kg | Maybe some tolerance |
| 20 | Color | Black | |

4. PRODUCT OUTLINE DRAWING



5. CHARGING ALGORITHM IUUa for MK Gel & AGM batteries



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