

24V2A Technical Specification (Confidential!)

CONTENTS:

1 INTRODUCTION1
2 DOCUMENT HISTORY1
3 SPECIFICATION 1-2
4 DC Output Connector definition3

1 INTRODUCTION

This document specifies the requirements of Battery charger for **Lead-acid batteries**. The charger shall charge a **Lead-acid batteries with CC/CV/Floating profile**.

The baseline is PowerFirst model PF2402SL

****** Advanced Microchip control**

Product picture:

The physical product maybe varies depends on customer’s different requirement and product application.



Without cooling

2 DOCUMENT HISTORY

Table 2-1 Document History

Version	Date	Change record	Creator
1.0	12.04.13	Initial version	PowerFirst

3 SPECIFICATION

Table 3-1 Specification

No	Item	Technical specification	Remark
1	Rated input voltage	100 -240 Vac	Universal
2	AC frequency	50-60Hz	
3	CC Output	2A +/-0.5A	
4	Boost charge voltage	28.8V+/-0.2V (2.4/cell)	
5	Floating charge voltage	27.0V ~ 27.8V	
6	Cooling	Without fan	
7	Efficiency	Efficiency >=85% under 230V input Efficiency approx. 85% under 115V input	

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No	Item	Technical specification	Remark
8	Short circuit protection	Short circuit protection should be automatically recovery after remove the condition	
9	Reverse polarity protection	Reverse polarity protection should be automatically recovery after remove the condition	
10	Additional protection	Sparkless protection, AC surge protection,	
11	Operating temperature	0°C ..40°C	
12	Environmental protection	IPX0	
14	Output connector	DC Output: 3PIN XLR connector Cable length: 1200mm	Measured from case to connector
15	AC input cable/connector	2x0.5mm ² with 3Pin UK plug. Cable length: 1.8M	Affix separate AC cable per different market domain, the cable length can be optional
16	LED instruction	Red Flashing = No Battery connected Red On = Normal charging Green On = Fully charged and ready for use	
17	Dimensions	L135.5 x W65.5x H37mm	
18	Weight	0.3kg (exclude the AC power cord)	Maybe some tolerance

4. DC Output Connector definition

Output Signal	Pin	Connector	Description	Type
Charge +	1	XLR 3 pin connector	PIN 1 B+ PIN 2 B- Pin 2 bridge to Pin 3 for inhibit (forbidden the vehicle from moving during charging)	
Charge -	2			

□ IUUa for Generac GEL and AGM batteries

