



PowerFirst Technology Company Limited

深圳市顶尖电源科技有限公司

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Technical Specification for 60W PFxxxxSL (Confidential)

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1 INTRODUCTION

This document specifies the requirements of Battery charger for the 60W models PFxxxxSL with plastic housing. 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 mark as “■”.

- IU1a-Acd for Wet traction batteries
- IU1a-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	20.12.15	1 st 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	12V	24V	
4	CC	1A/2A/3A/4A	1A/1.5A/2A	




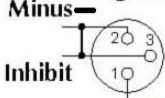

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No	Item	Technical specification	Remark
5	CV	2.4Vpc	
6	Floating charge voltage	2.3Vpc	
7	Peak Efficiency	87% @220VAC/24VDC, 85% @110VAC/24VDC	
8	Inhibit Function	Output Pin 2 shorted with Pin 3	XLR connector
9	Short circuit protection	Short circuit protection should automatically recover after removing the condition	
10	Reverse polarity protection	Optional	
11	Additional protection	AC surge protection, Over temperature protection	
12	SAFETY/EMC/ROHS	CE, UL LVD: EN60335-2-29 by SGS EMC: EN55014 by SGS UL1310 and C22.2NO.223 by ETL	
13	Output definition & connector (Customizable)	 <p>View is looking into the plug</p>  <p>Minus - Inhibit + Plus</p> <p>XLR Male Connector Pin 1 Positive Pin 2 Negative Pin 3 Inhibit (tied to negative)</p>	Cable: 2*1mm ² *1.2m Connector: 3Pin XLR
14	AC input cable / connector (Customizable)	 <p>C7</p>	Cable length: 1.8m
15	LED instruction	Red on = Normal charging Green on = Fully charged or no battery connected	
16	Cooling method	Natural cooling without fan	
17	Mechanical fixing	Portable for off-board application	
18	Dimensions	L133 x W64 x H38 mm	
19	Weight	0.45Kg	Maybe some tolerance
20	Color	Black	
21	Housing	Plastic	



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4. CHARGING ALGORITHM

IUUa for Generac GEL and AGM batteries

