



48V3A Technical Specification (Confidential)

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1 INTRODUCTION

This document specifies the requirements of Battery charger for 48V3A for project. The charger shall able to set below choose pre-programmed charging curve.

- IUUa for Generac GEL and AGM batteries

The baseline is PowerFirst model **PF4803LP**

Product picture (Case A3):



2 DOCUMENT HISTORY

Table 2-1 Document History

Version	Date	Change record	Creator
1.1	15.11.13	Initial version	PowerFirst

3 SPECIFICATION

Table 3-1 Specification

No	Item	Technical specification	Remark
1	Rated input voltage	100 -240 VAC +/-10%	Universal
2	AC frequency	50-60Hz	
3	CC Output	3A +/-0.5A	
4	Boost charge voltage	56.4V~57.6V	
5	Floating	54V~55.2V	
6	Cooling	With fan	
7	Efficiency	Nominal: Efficiency >=85% under 230V input Efficiency approx. 83% under 115V input	



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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	Sparkles protection, AC surge protection, Over temperature protection	
11	LVD/EMC/ROHS	Safety: EN60335-2-29 EMC: EN55014 Class A RoHS compliance according to 2011/65/EU	
12	Output definition	The output shall be 2 wires B+ and B-	
13	Output connector	DC Output: 3PIN XLR connector	Can be customized
14	AC input cable/connector	IEC C14 plug	1800mm EU AC cable
15	LED instruction	Red Flash = charger error Yellow Flash = No battery connected Yellow on = Normal charging Green on = Fully charged	
16	Mechanical fixing	Off board charger	
17	Dimensions	L165 x W95 x H55 mm	
18	Weight	0.82kgs (exclude the AC power cord)	Maybe some tolerance

4. CHARGINIG PROFILE

■ IUUa for Generac GEL and AGM batteries

(CC=3 A± 0.5 A; CV= 56.4 V ~ 57.6 V ;Floating voltage=54.4V ~ 55.2V)

