FORTRESS POWER
Secure your energy

Application Note

eFlex 5.4 Technical Notes

Introduction

This document is intended to provide technical details on the operation and troubleshooting of the eFlex BMS. Table 1 covers how to interpret the BMS light on the battery front panel. Table 2 covers how to program the eFlex using our CAN tool/software for different inverter communication modes.

BMS Error Light Indication (as of BMS software v2269) - (Table 1)

BMS Light Status	Errors/Fault
Off	Normal
Single Flash (then off for three second)	Overcurrent Protection Battery Temp High/Low Cutoff SOC low/ cell voltage <2.8V
2 Flashes (then off for three second)	Communication error between parallel batteries Insulation Resistance Error
3 Flashes (then off for three second)	Unbalanced battery cell Temperature delta > 10C Charge/discharge or pre-charge contactor failed Fuse failed Voltage sensor broken Temper sensor failed Diode failed
5 Flashes (off for three second)	BMS Board Failed

eFlex Closed Loop Control Protocol Selection (Table 2)

Protocol	1	2	3	4
MOD Bus Protocol	Schneider/Fortress	Reserved	Reserved	Reserved
CAN Bus Protocol	Schneider/Fortress	SMA	Victron	Reserved

About Fortress Power

Our mission is to provide compact, user-friendly, and affordable energy storage solutions using the latest technology for all homes and businesses. Fortress solar energy storage batteries can easily integrate with new and existing PV systems and work with a wide range of existing inverter and charge controller manufacturers for ease in system design.

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