

# LiFe and Eco Series Battery Settings for Outback Products

Settings listed are only applicable to battery charge and discharge. All other settings are the responsibility of the integrator. All settings are accessed and configured using the Outback MATE3 or appropriate method.

It is the responsibility of the integrator to have a full understanding of the Outback product prior to programming, and it is preferred that they have attended the manufacturer's training or integration course, should they be available.

It is highly recommended to use State of Charge control.

The table below outlines the performance of the Outback power inverters and the required quantity of batteries to achieve the full performance of the inverters. The battery quantity is not compulsory, however is highly recommended as a minimum to reduce possible battery trips, due to over current.

Always consult and read the manufacturer's documentation before designing, installing and programming their devices.

	LiFe2433P	LiFe2433PS	LiFe4833P	LiFe4833PS	Eco4840P	Eco4840PS
ATL3024E	4					
ATL5048E				2		2
FXR2524A	4					
FXR2024E						
FXR3048A				2		2
FXR2348E						
VFXR2524A	4					
VFXR3024E						
VFXR3048A				2		2
VRXR3048E						

Installers should ensure an adequate system design is carried out at all times. PPE accepts no responsibility for underperforming system designs

As part of our continued improvement process, settings are subject to change without notice and are correct at time of publishing

# Outback Settings for Inverter Chargers, Hybrid Inverter and MPPTS

	LiFe2433P	LiFe2433PS	LiFe4833P	LiFe4833PS	Eco4840P	Eco4840PS
<b>Inverter Settings</b>						
Low Battery - Cut Out Voltage	24V 0% SoC 24.75V 10% SoC 25.10 20% SoC	24V 0% SoC 24.75V 10% SoC 25.10 20% SoC	48V 0% SoC 49.50V 10% SoC 50.20V 20% SoC	48V 0% SoC 49.50V 10% SoC 50.20V 20% SoC	48V 0% SoC 49.50V 10% SoC 50.20V 20% SoC	48V 0% SoC 49.50V 10% SoC 50.20V 20% SoC
Low Battery - Cut In Voltage	26V	26V	52V	52V	52V	52V
Battery Charger - Absorb Voltage	28.8V	28.4V	57.6V	56.8V	57.6V	56.8V
Float Voltage Standby (Short Term Float) (Example Cyclic Application)	28.8V	28.4V	57.6V	56.8V	57.6V	56.8V
Float Voltage Standby (Long Term Float) (Example Standby Application)	28V	28V	56V	56V	56V	56V
Battery Charger - Re-Float Voltage	28V	28V	56V	56V	56V	56V
Battery Charger - Re-Bulk Voltage	26.5V	56.5V	52.9V	52.9V	52.9V	52.9V
Battery Charger - Absorb Time	2 hours					
Battery Charger - Float Time	1 hour					
Battery Charger - Equilise	Disabled or set same as Absorb Voltage					
<b>Charger Control Settings</b>						
Charge Controller - Charger - Absorb Voltage	28.8V	28.4V	57.6V	56.8V	57.6V	56.8V
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	28.8V	28.3V	57.6V	56.8V	57.6V	56.8V
Float Voltage Standby (Long Term Float) (Example UPS Application)	28V	28V	56V	56V	56V	56V
Charge Current	50% or C2 of Total Battery Capacity					
Charge Controller - Charger - Absorb Time	2 hours					
Charge Controller - Charger - Charger - ReBulk Voltage	26.5V	56.5V	52.9V	52.9V	52.9V	52.9V
Charge Controller - Charger - Charger	VE.Direct					
Charge Controller - Charger - Absorb End Amps	Calculate 4Amps for every 200Ahs Installed					
Charge Controller - Charger - Temperature	Leave as default or turn off					
Charge Controller - Battery Equalise - Equalisation Voltage	Disable or set to same as Absorb Voltage					

MATE3s Settings

MATE3 - FLEXnet DC Adv. Control - Low SoC Warning	20% or higher
MATE3 - FLEXnet DC Adv. Control - Critical Soc Warning	10% or higher

Battery Monitoring Settings

Battery Monitor - Battery Setup - Battery Amp hours	Total Installed Battery Capacity in Amp hours					
Battery Monitor - Battery Setup - Charged	28.8V	28.4V	57.6V	56.8V	57.6V	56.8V
Battery Monitor - Battery Setup - Charged Return Amps	Calculate 4 Amps for every					
Battery Monitor - Battery Setup - Time	2 hours					
Battery Monitor - Battery Setup - Charge	96%					
Battery Monitor - Battery Setup - Shunt Enable	Y					