Integration Guide

Integrating with a Radian/FXR

The following charge settings are recommended when pairing a Pytes V5° battery with a single Radian or FXR system. Please consult the MATE3s Programming Guide for detailed instructions on how to adjust the settings.

Radian	Setting
Absorb Voltage	56.8 Vdc
Float Voltage	56 Vdc
Re-float Voltage	52.4 Vdc
Re-bulk Voltage	51.4 Vdc
AC Charger Limit (A_{AC})	30 Aac
Low Battery Cutout	49.5 Vdc
LBCO Delay	120 seconds
Low Battery Cut-in	52 Vdc
High Battery Cutout	57 Vdc
HBCO Delay	10 seconds
High Battery Cut-in	54 Vdc
Sell Voltage	53.2 Vdc
Charge Controller	
Absorb Voltage	56.8 Vdc
Float Voltage	56 Vdc
Re-bulk Voltage	51.4 Vdc
DC Current Limit	60/80/100 Adc*
Absorb End Amps	0 Adc
FN-DC	
Battery Ah	100 Ah per V5°
Charged Voltage	56.8 Vdc
Charged Return Amps	6.5 Adc
Battery Charge Efficiency	95%
MATE3s	
FN-DC Advanced	Low/Critical SOC Warning = 10%/ 15%

Integrating with a SkyBox

The settings below should be programmed under the Custom choice. Please consult the SkyBox Programming Guide for detailed instructions on how to adjust these settings.

SkyBox	Setting
Maximum SOC	100%
Minimum SOC	10%
Absorb Charge	Timed
Absorb Voltage	56.8 Vdc
Absorb Voltage	02:00
Float Charge	Disabled
Float Voltage	56V
Float Time	Can be left at default
Re-float Voltage	51 Vdc
Re-bulk Voltage	50.4Vdc
Equalize Voltage	56 Vdc
Minimum Equalize Time	00:00
Max Charge Current (Adc)	100 Adc*
Grid Charge Limit (kW)	Site specific
Low Battery Cutout	49.5 Vdc
LBCO Delay	120 seconds
Low Battery Cut-in	52 Vdc
High Battery Cutout	57 Vdc
HBCO Delay	10 seconds
High Battery Cut-in	54 Vdc
Battery Series	Custom
Battery Model Number	Custom
Battery Description	Pytes V5
Battery Total Amp-Hours	100 x (Number of Batteries)
Charge Efficiency Factor	95%
Absorb End Amps	6.5 Adc

*Ensure the maximum battery charging current(75A per V5) is not exceeded after all charge controllers are taken into consideration.