

fleaPower™ Technical Reference

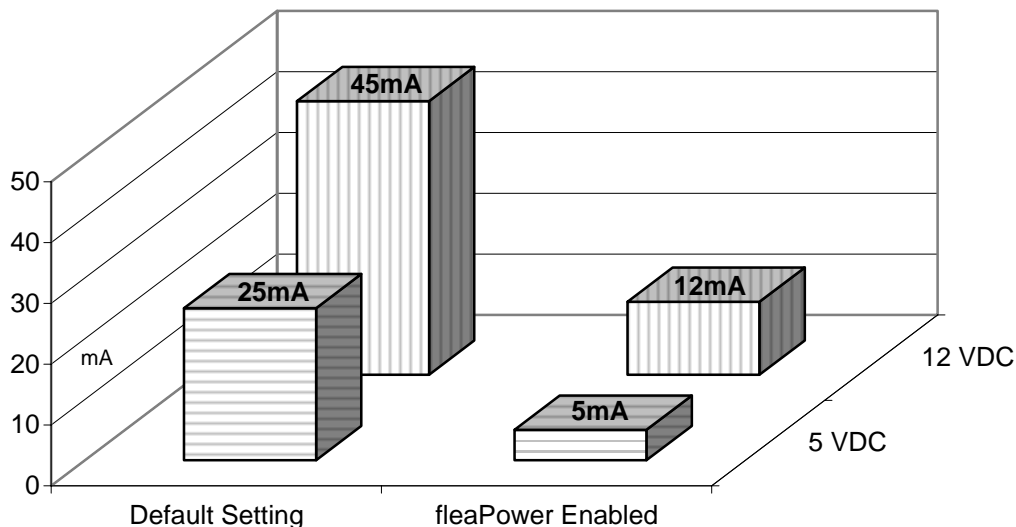
1.0 Introduction

Pioneered by Farpointe Data and available exclusively with the *Pyramid Series* Proximity™ line, fleaPower™ is a new, patent-pending technology that dramatically reduces the power requirements of a proximity-RFID reader. Through the application of Farpointe Data's latest advanced technology, fleaPower can reduce the power consumption of a *Pyramid Series* Proximity reader by as much as 500%.

fleaPower offers a number tangible benefits. First and foremost, fleaPower is a true 'eco-technology,' doing its part to save energy and the environment. Second, fleaPower reduces the amount of money a user must spend to operate their proximity readers. Third, fleaPower offers the systems integrator the true option of powering a reader directly from the access controller, eliminating the need for expensive separate power supplies. And finally, fleaPower enabled readers are the best choice for emergency situations, as they can be powered much longer by back-up batteries.

2.0 In Operation

Typical Power Consumption: P-300 Cascade Proximity Reader



The chart above documents the typical power consumption of the P-300 reader. In the default setting, average power consumption is 25 mA at 5 VDC, and 45 mA at 12 VDC. When the P-300 is fleaPower enabled, average power consumption drops to just 5 mA at 5 VDC and 12 mA at 12 VDC¹. This level of low power operation is

1. Peak current consumption is 85 mA, and occurs when reading a proximity card or tag.

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accomplished with the reader set for two-line LED operation, and the LED in the off-mode. With the LED in the on-mode, power consumption is increased by approximately 10 mA.

fleaPower¹ can be used with HID compatible *Pyramid Series* readers (i.e. P-300-H), as well as readers featuring Wiegand or ABA Track II magnetic stripe outputs. fleaPower enabled readers can read all the models of *Pyramid Series* cards and tags. It is important to note that there may be some reduction in read range with fleaPower enabled readers, though this loss is generally less than 10%.

3.0 Implementation

The fleaPower Control Card is used to fleaPower enable a *Pyramid Series* Proximity reader. For more information on the fleaPower Control Card, please see the [Pyramid Series Control Card Document](#) (p/n 01546-003).

1. Applies to all Rev. H and later *Pyramid Series* readers. Contact Farpointe Data for specific models.