

## INfinity 510

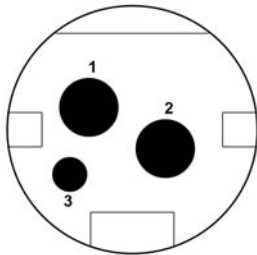
### Input DC Power Requirements

#### Overview

Sirit's INfinity 510 fixed position reader is specified and shipped with a robust power adapter unit. This unit is designed to mate with the power connector of the INfinity 510 and supplies the reader with DC power of the required specifications. It is **highly recommended** that all customers use this power supply with their INfinity 510. All performance and regulatory testing and certification have been performed with the standard IN510 power adaptor.

A situation may arise where using the standard IN510 power adaptor may not be feasible or even possible. It is possible to substitute an alternate power source for the IN510, but it must conform precisely to the specifications given in this application brief. Sirit is not responsible for any damage caused by the use of improper DC supply voltage. The customer is also responsible for any new regulatory testing that may be required resulting from the use of a non-standard power source.

#### Connector Specifications

Pin	Name	Description	
1	V <sub>DC-</sub>	Input Voltage, negative rail	
2	V <sub>DC+</sub>	Input Voltage, positive rail	
3	nc	No internal connection	
<b>Mating Connector:</b> Kycon Inc. part number <b>806-KPPX-3P</b>			Front View

#### Electrical Specifications

Over the recommended operating conditions of the INfinity 510 reader

Parameter	Description	Condition	Min	Max	Units
V <sub>DC</sub>	DC input voltage		12	24	V
I <sub>DC</sub>	Input current	V <sub>DC</sub> = 12 V	5		A
		V <sub>DC</sub> = 24 V	2.5		A
Ripple	Input voltage ripple	Peak to peak		1	%