

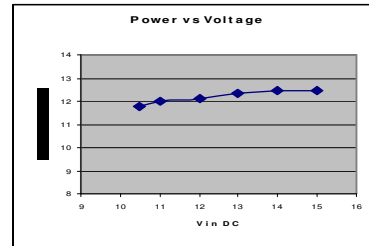
# MED Electronics Low Voltage Fluorescents

## BALLAST DATA SHEET

**Part Numbers:**            12VDC5WB thro 12VDC13WL

**Features**

Battery Voltage DC Supply 10.5V to 14.7V.
Ballast for Low Wattage Lamps 5W to 13W.
HF operation, 25kHz.
Low loss, high efficiency $\eta = 85\%$
Reverse polarity and lamp missing protection.
Short circuit current limiting.
Input-output isolation 2500VAC
Good input power regulation (see fig 1) ----->



**Absolute Maximum Ratings**

Parameter	All Ballasts	Unit
Vin DC	16	V
Reverse voltage	16	V
Operating ambient temperature	50	°C

**Recommended Operating Conditions**

Parameter	Min	Max	Unit
Vin DC	10.5	14.7	V
Ta, free air temperature	-10	50	°C

**Electrical Characteristics**

Parameter	Test Condition	Ta	5W	7W	9W	11W	13W
Iin Input Current	12VDC	25°C	0.43A	0.6A	0.77A	0.94A	1.11A
Io Output Current RMS	12VDC	25°C	0.1A	0.127A	0.15A	0.169A	0.185A
Operating power loss $\eta=85\%$	12VDC	25°C	0.065W	0.5W	1.35W	1.65W	1.95W
Typical variation of input power for 11W Ballast versus Input Voltage (see Fig 1)	11W Lamp at Ta 25°C	Pin	10.7W	11W	11.16W	11.44W	11.7W
		Vin	10.5V	11V	12V	13V	15V
fo Operating Frequency	12VDC	25°C	All Ballasts operate between 23kHz and 26kHz				

Parameter	Test Condition	Ta	Value
Reverse polarity input surge current	12VDC	25°C	60A pk decays rapidly to quiescent value
Reverse polarity quiescent current	12VDC	25°C	0.1A
Short circuit load, input current	12VDC	25°C	0.15A
Open circuit load, input current	12VDC	25°C	0.08A