

HW03-500C12

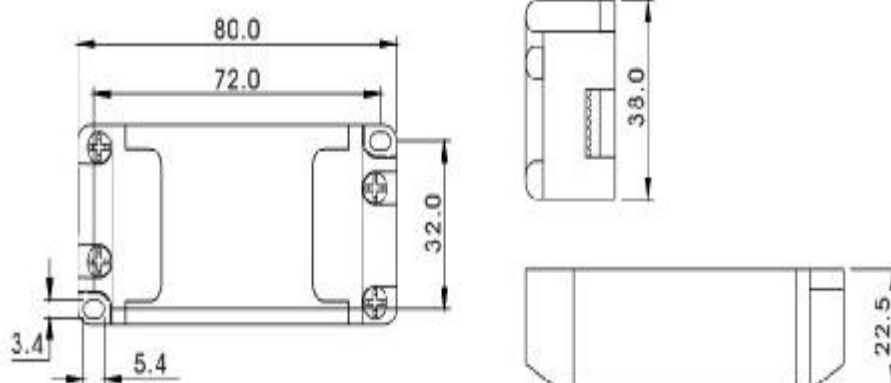


Key Features

Long lasting and high reliability,
Extra small compact housing,
Suitable for use with downlights,
Spotlights, and other indoor LED applications

Approval marks

 **SELV equivalent.**



Safety and EMC standard

Safety according to

EN 61347-1, 61347-2-3, 61347-2-13, 62493

RI suppression according to EN 55015:2007+A1:2007/CDN

Line harmonics according to EN 61000-3-2

Immunity according to EN 61547

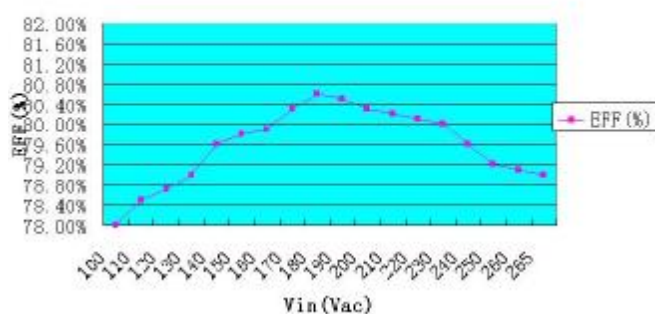
Electrical data

	Item	Value/Unit /Remarks
INPUT	Nominal voltage	100 – 240 VAC
	Nominal frequency	50 - 60 Hz
	AC voltage range	90 – 264 VAC Permitted voltage range
	DC voltage range	NA V
	Maximum voltage	275 V 2hrs
	Nominal current	100mA 230V @ 12W load
	Total Harmonic Distortion (THD)	< 20 % Full load, 230 V, 50 Hz
	Power factor	0.5 Full load, 230 V, 50 Hz
	Efficiency	81% Full load, 230 V, 50 Hz, typical
	No-load power	< 0.5 W 230V, typical
	Stand-by power	NA W
	Power loss	3.4W at 230V input @ 12W load max.
	Input power	15.2W at 230V input @ 12W load max.
	Protection class	II Suitable for class I and class II luminaires
	Inrush current	< 5 A twidth = 100 µs typical (measured at 50% Ipeak)
OUTPUT	Nominal voltage range	12-24VDC
	Maximum voltage	30VDC Open circuit
	Nominal current range	500Ma
	Current accuracy	+/- 5 %
	Current ripple	10 % typical
	Nominal power range	11.3 – 12.4W Partial Load.
	Maximum power	12 W Ta ≤ 55°C,
	Galvanic isolation	SELV-equivalent 3,75 kVrms . Output to earth - Touch current < 0.7 mA
ENVIRON MENT	Ambient temperature range ta	-20 ...+55 °C Refer to Table 1 for details
	Maximum case temperature tc	85 °C Measured on tc point indicated of the product label.
	Max. Case temp. in fault condition	110 °C
	Storage temperature range	-25 ...+75 °C Cool down before operating
	Relative humidity	5 ... 81 % Not condensing
	Surge transient protection	1 1 kV L/N LN/PE acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...)
	Environmental rating	Indoor
	IP rating	IP 20
	Mains switching cycles	> 100'000
	Expected lifetime	≥50'000 hrs ta = 50°C , tc = 85°C, 10% failure rate
Protection	Overheating protection	yes, automatic reversible
	Overload protection	yes, automatic reversible
	Short-circuit protection	yes, automatic reversible
	Hot plug-in protection	No, Hot plug-in or secondary switching of LEDs is not

		permitted and may cause a very high current to the LEDs.
DIMENSION WEIGHT	Dimensions	
	Weight	
	Max. cable length	2m
	Cable crosssection, input side	0.5...1.5 mm ²
	Cable crosssection, output side	0.2...1.5 mm ²

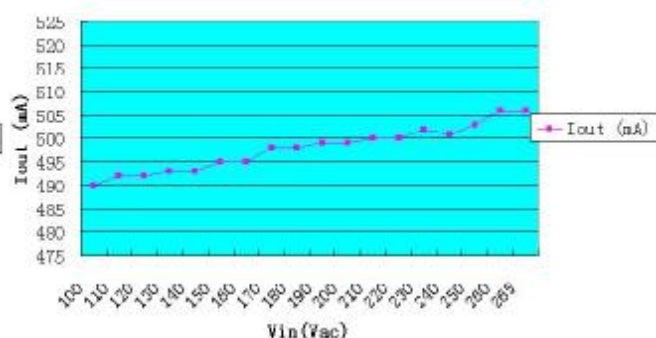
Variable Input Vs Efficiency

Vin =100Vac-264Vac/50Hz; Loading with 6LEDs 500mA



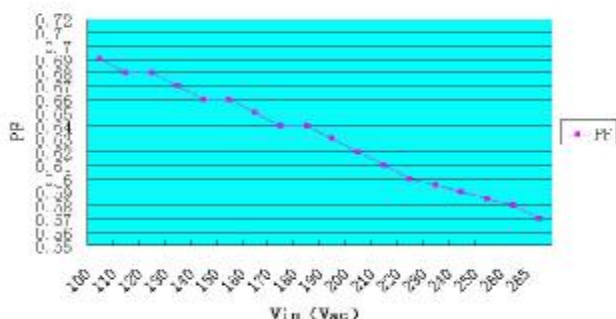
Variable Input Vs Iout Measurement

Vin =100Vac-264Vac/50Hz; Loading with 6LEDs 500mA



Variable Input Vs PF Measurement

Vin =100-264vac/50Hz; Loading with 6LEDs 500mA



Disclaimer

The information in this data sheet subject to change without notice.

Always make sure to use the most recent release, or consult with us before your final selection.