



Date _____ Project _____

Notes _____

DRVW1212

This 12V constant voltage driver comes with short circuit, overload and over voltage protection. Designed with two layers of insulation, this Class 2 power supply is suitable for LED related fixtures and appliances and comes with a two-year warranty.



IP42

- 12 VDC output
- IP42 rated
- 12W models
- Cooling by free air convection
- 100% full load at burn-in test

SPECIFICATIONS

Output Voltage (DC)	12V
Rated Current	1A
Input Voltage Range (VAC)	100- 240V AC
Rated Power	12W
Ripple and Noise (max.)	120mVp-p
Voltage Tolerance	± 5.0%
Line Regulation	± 1.0%
Load Regulation	± 2.0%
Setup / Rise Time	1500ms, 30ms / 230V AC 1500ms, 30ms / 115V AC at full load
Hold Up Time (Typ.)	20ms/230V AC 15ms/115VAC at full load
Input Frequency	47 - 63Hz
Efficiency (Typ.)	82%
In-rush Current	COLD START 70A (twidth=120Qs measured at 50% Ipeak) at 230V AC
Leakage Current	0.25mA / 240V AC
Over Voltage	13.8 - 16V Protection type : Shut off o/p voltage, clamping by zener diode
Working Temperature	-30 - +70°C (Refer to "Derating Curve")
Working Humidity	20 - 90% RH non-condensing
Storage Temp. Humidity	-40 - +80°C, 10 - 95% RH
Temp. Coefficient	3 30.03%/°C (0 - 50°C)
Vibration	10 - 500Hz, 2G 10min./cycle, period for 60min. each along X, Y, Z axes
IP Rating	IP42
Safety Standards	UL8750,CSA C22.2 No.250.0-08, ENEC EN61347-1,EN61347-2-13,EN62384 Independent,BIS IS15885(except for 15V), EAC TP TC 004,IP42 Approved; design refer to EN60950-1
Withstand Voltage	I/P-O/P:3.75KV AC
Isolation Resistance	I/P-O/P:>100M Ohms / 500V DC / 25 °C / 70% RH
EMC Emission	Compliance to EN55032,EN61000-3-2 Class A,EN61000-3-3, EAC TP TC 020
EMC Immunity	Compliance to EN55024,EN61000-4-2,3,4,5,6,8,11; light industry level(surge 2KV), criteria A, EAC TP TC 020
MTBF	1145.7K hrs min. MIL-HDBK-217F (25 °C)
DIMENSIONS (L x W x H)	3.03 x 1.57 x 1.14 in. (77 x 40 x 29 mm)
WEIGHT	11.8Kg 26.06 Lb

ORDERING GUIDE

Part Number	DRVW1212
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DRIVER REMOTE DISTANCES

Wire Gauge	Feet	Meters	Wire Gauge	Feet	Meters
24 AWG / 0.20 mm ²	12.42	3.788	14 AWG / 2.08 mm ²	133.33	40.650
22 AWG / 0.33 mm ²	21.03	6.410	12 AWG / 3.31 mm ²	210.26	64.103
20 AWG / 0.52 mm ²	32.16	9.804	10 AWG / 5.26 mm ²	331.31	101.010
18 AWG / 0.82 mm ²	52.06	15.873	8 AWG / 8.37 mm ²	520.63	158.730
16 AWG / 1.31 mm ²	84.10	25.641			

NOTE: Calculations include a standard 10% buffer