

## Art. 1596B

### ■ Features

1. Universal AC input /Full range
2. Protections: Short circuit/Overload /Over voltage
3. Cooling by free air convection
4. Can be installed on DIN rail TS-35/ 7.5 or 15
5. Isolation class II
6. LED indicator for power on
7. 100% full load burn-in test
8. EN62368-1 & J60950-1&J55022 approved



### ■ Specification

MODEL		1596B
OUTPUT	DC VOLTAGE	33V
	RATED CURRENT	1.82A
	CURRENT RANGE	0~1.82A
	RATED POWER	60W
	RIPPLE&NOISE(max.) Note.2	150mVp-p
	VOLTAGE ADJ.RANGE	29.7-36.3V
	VOLTAGE TOLERANCE Note.3	±3%
	LINE REGULATION	±1%
	LOAD REGULATION	±3%
	SETUP, RISE TIME	115VAC/32ms 230VAC/30ms
	HOLD UP TIME(Typ.)	65ms/230VAC 15ms/115VAC
INPUT	VOLTAGE RANCE	88~264VAC 124~370VDC
	FREQUENCY RANVE	47~63Hz
	EFFICIENCY(Typ.)	84%
	AC CURRENT(Typ.)	1.2A/115VAC 0.8A/230VAC
	INRUSH CURRENT(Typ.)	COLD START 36A/115VAC 70A/230VAC
PROTE CTION	OVERLOAD	105~160% rated output power
		Protection type: Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	37.9-44.6V

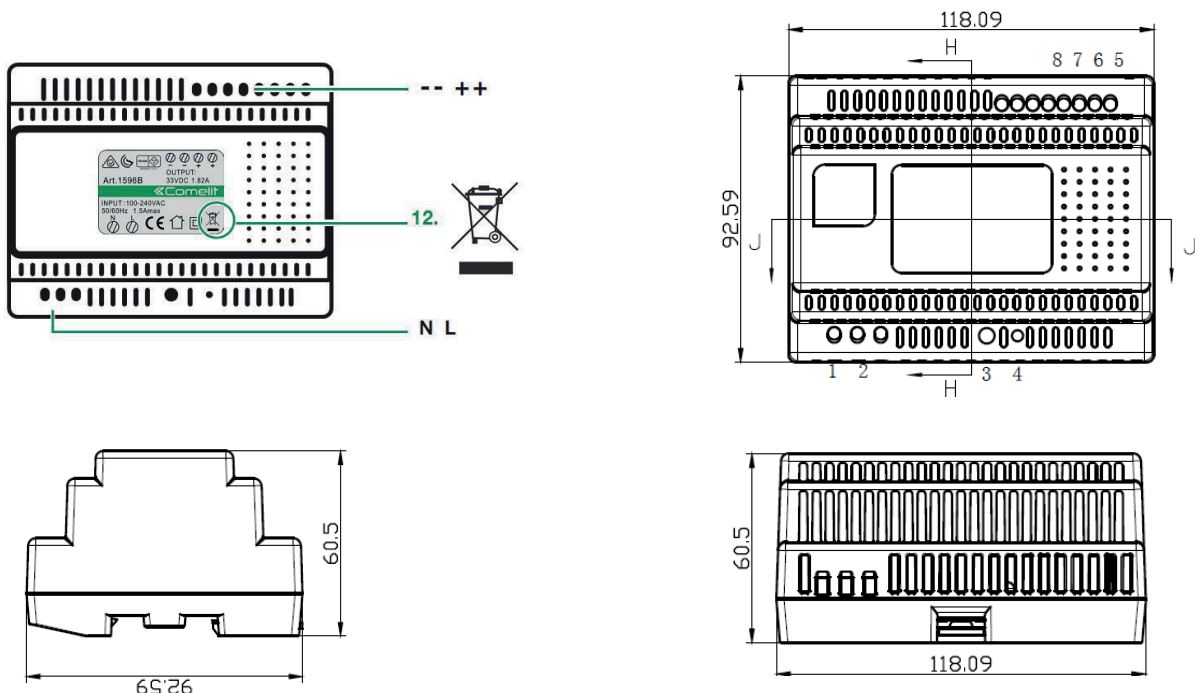
		Protection type: Shut down o/p voltage, re-power on to recover
ENVIRO NMENT	WORKING TEMP.	-20~+60°C (Refer to "Derating Curve")
	WORKING HUNIDITY	20~90% RH non-condensing
	STORAGE TEMP., HUNIDITY	-40~+85°C, 10~95% RH
	TEMP.COEFFICIENT	±0.03%/°C (0~50°C)
	VIBRATION	10~500Hz,2G 10min./1cycle, period for 60 min, each along X,Y,,Zaxes;Mounting :Compliance to IEC60068-2-6
SAFETY	SAFETY STANDARDS	Design refer to ul60950-1, TUV EN60950-1, EN50178
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC/25°C/70%RH
OTHERS	MTBF	216.2K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION	118.09*92.59*60.5mm(L*W*H)
	PACKING	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" teisted pair-wire terminated with a 0.1uf&47uf parallel capacitor. 3. Tolerance: Inciudes set up tolerance,line regulation and load regulation.	

## ■ Mechanical Specification

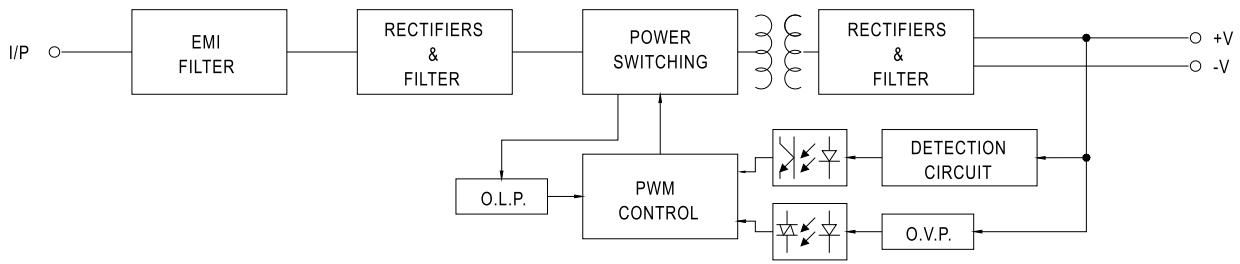
Unit:mm

### Terminal Pin No.Assignment

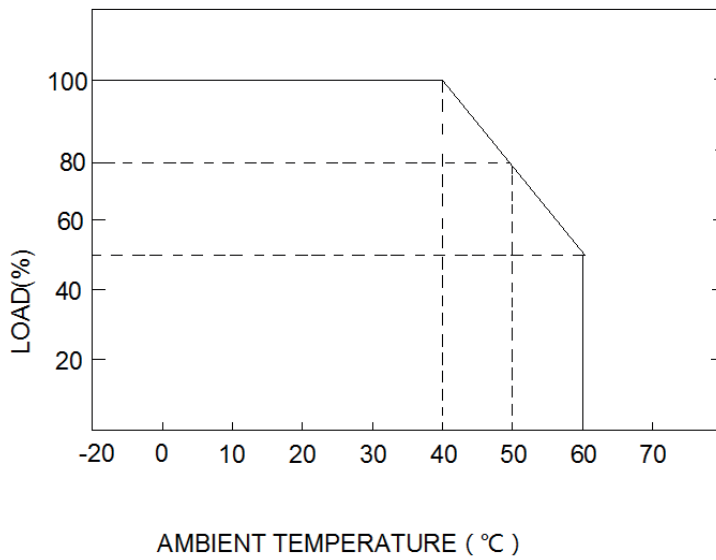
Pin No.	Assignment	Pin No.	Assignment
1	AC/N	4	LED
2	AC/L	5,6	+V
3	+V ADJ	7,8	-V



## ■ Block Diagram



## ■ Derating Curve



[Check for updates]



CERTIFIED MANAGEMENT SYSTEMS



[www.comelitgroup.com](http://www.comelitgroup.com)

Via Don Arrigoni, 5 - 24020 Rovetta (BG) - Italy



2ª edizione 10/2018  
cod. 2G40002334

