

AC POWER SUPPLY

Model : APS 2010

Ver. 3.0

Technical overview



Main technical parameters:

- Input voltage – effective value (V_{eff}) : 160 ÷ 260 V AC
- Output voltage (V_{eff}) : 230 ± 10% VAC
- Output power (Pout) : 180 VA
(250 VA until 10 min)
- Max input power consumption (P01) : < 15 VA (for load > 40VA)
< 10 VA (for load 0÷40VA)
- Circuit protection :
 - Thermal fuse located on PCB, I = 1,6 A
 - Overvoltage protection by means of varistor in output, 230V+10%
- Indication of ON state : green indicator in power-on switch
- Indication of right output voltage (for $U_{out} > 190 V$) : yellow LED
- Inputs and outputs : screw terminals (L, N, PE)
- Cable throughputs : Pg 13,5
- Dimension : 125 × 230 × 95 mm
- Housing : metal case, thickness of sheets = 1,5 mm
- Mass : 2,9 kg (netto)
- Colour : white background and black legends
- Working position :
 - § horizontal (on foots)
 - § vertical (mount to the wall)
- Electrical environment: AA5/AB5 (ČSN 332000-3 a ČSN 33 2000-5-51)

Standards:

- ČSN EN 60335-1 + A55 and A56
- ČSN EN 55014-1 + A1+A2
- ČSN EN 55014-2 + A1

Description :

The APS2010 device monitors effective value of input voltage. Output voltage (effective value) is modified to guarrantee output voltage within standard limits. The following figures present the dependence of output voltage on input volatage.

APS 2010 - AC power supply

The dependence of output voltages and output currents on input voltages for various loads for U_{in} 150VAC - 260VAC (eff)

U_{in} (VAC, eff): input voltage, effective value

U_{out} (VAC, eff): output voltage, effective value

U in (VAC)	U out (VAC) no load	U out (VAC) 100W resistive	U out (VAC) 100W rest.+50W induct	Iz, no load (mA)	Iz (100W res) (mA)	consumption W
150	170	190	186	60	557	9,00
160	184	202	198	62,8	577	10,05
170	196	214	210	68,7	598	11,68
180	209	227	222	74,4	621	13,39
190	220	233	234	80,4	631	15,28
200	234	233	234	87,9	573	17,58
210	239	233	234	76	555	15,96
220	240	233	235	68	539	14,96
230	240	234	238	62,7	528	14,42
240	242	235	239	58,8	519	14,11
250	243	236	240	55,9	512	13,98
260	246	237	241	53,2	505	13,83

