High Voltage Power Supply APS-series (0,6 W)

The APS-series offers small High Voltage Power Supplies as DC/DC-Converters RoHS compliant which can be mounted and soldered on PCB´s. The Output Voltage range is up to 600 V and the Output Current range up to 6 mA. The Output Voltage is controllable with either a potentiometer or an input analogue control voltage. The metal box and our patented resonance mode principle guarantees very low EMI.

Technical Data	**Type**	APx[)1] 01 605 12	APx[)1] 02 305 12	APx[)1] 03 205 12	APx[)1] 04 155 12	APx[)1] 05 125 12	APx[)1] 06 105 12
Nominal output voltage	[)1]x = **p**:	**+** 100	**+** 200	**+** 300	**+** 400	**+** 500	**+** 600
$V_{OUT\ n}$ [V]	[)1]x = **n**:	**-** 100	**-** 200	**-** 300	**-** 400	**-** 500	**-** 600
Nominal output current $I_{OUT\ n}$ [mA]		6	3	2	1,5	1,2	1
		internally limited to $I_{OUT\ max}$ ca. (1,5 to 3) ∗ $I_{OUT\ n}$					
Protection		Overload and short circuit					
Adjustment accuracy $V_{OUT\ n}$		± 1,5 %					
Ripple & noise		< 50 mV_{P-P} (no load and full load)					
Supply voltage V_{IN}		11,5 V to 15,5 V-DC Blocking circuit is recommended for ripple rejection to input line with 22 µF // 100 nF near pin IN					
Supply current I_{IN}		V_{OUT} = 0; I_{IN} < 3 mA V_{OUT} = $V_{OUT\ n}$; no load; I_{IN} < 40 mA V_{OUT} = $V_{OUT\ n}$; max. load; I_{IN} < 100 mA ($V_{OUT\ n}$ > 200 V) I_{IN} < 140 mA ($V_{OUT\ n}$ ≤ 200 V)					
Stability V_{OUT}		ΔV_{IN}: < 1 ∗ 10^{-3} ∗ $V_{OUT\ max}$					
		no load to load: < 2 ∗ 10^{-3} ∗ $V_{OUT\ max}$					
Temp. coefficient		< 2 ∗ $10^{-4}/_{K}$					
Control on REMOTE		1st: with R_{SET} connected between REMOTE and GND R_{SET} = V_{OUT} ∗ 10 kΩ / (| $V_{OUT\ n}$ | – V_{OUT})					
		2nd: with V_{SET} 0 ≤ V_{SET} ≤ 5 V ⇒ 0 ≤ V_{OUT} ≤ | $V_{OUT\ n}$ | Attention! When Signal is “OFF”, I_{REMOTE} must not exceed 5mA ! Output voltage is internally not limited! At V_{SET} > 5 V ⇒ | $V_{OUT\ max}$ > $V_{OUT\ n}$ | is available. Do not use V_{SET} > 5 V!					
Monitor voltage V_{MON}		0 ≤ V_{OUT} ≤ | $V_{OUT\ n}$ | ⇒ 0 ≤ V_{MON} ≤ 5 V					

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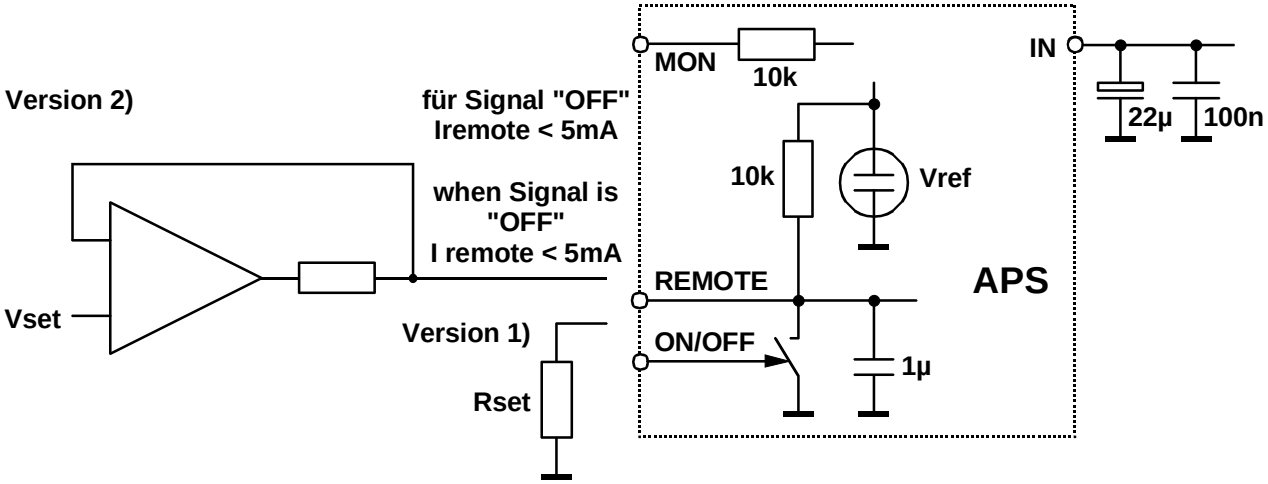
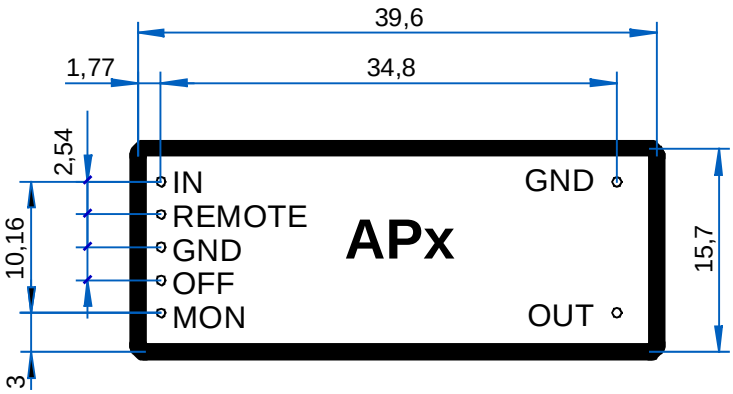
Signal OFF		ON: $V_{ON/OFF}$ = 0 (LOW or open) ⇒ V_{OUT} according setting OFF: 15,5 V ≥ $V_{ON/OFF}$ > 2,5 V (HIGH) ⇒ V_{OUT} = 0!					
Operating temperature		0 ... +40 °C					
Storage temperature		-20 ... +60 °C					

Control principle - APS



Case Steel cover, spilled and potted; L/W/H: (40/15/11) mm³



Kontakt / contact: 0,63mm * 0,63mm
Länge / length: 2,2$^{+/-0,4}$ mm

Draufsicht / Top View

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