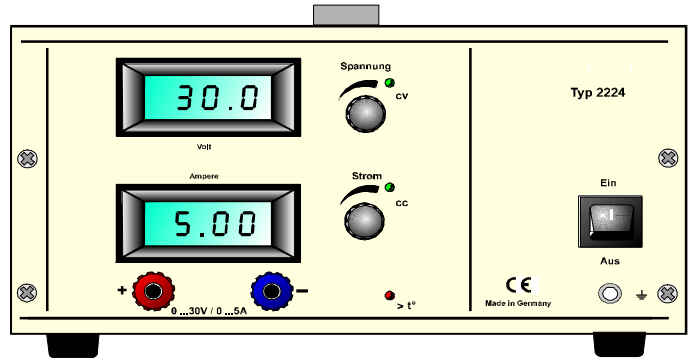
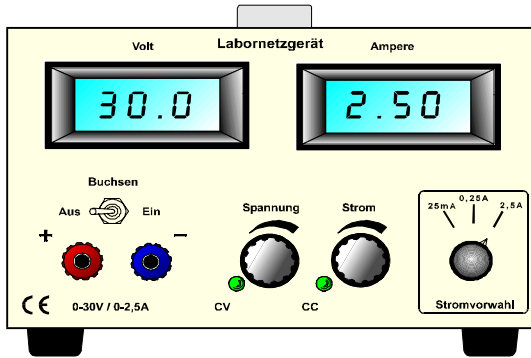
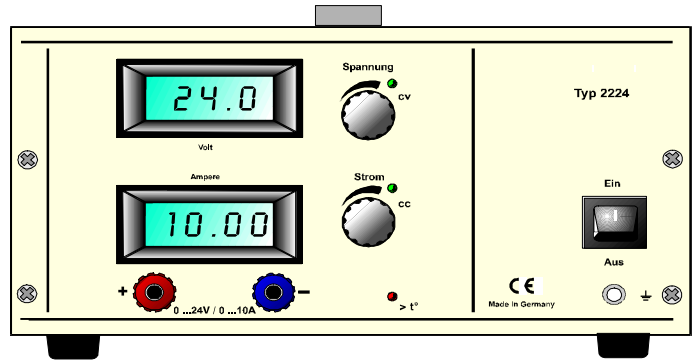


## Equipment qualities

- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- Excess temperature display by LED (type 2224)
- separate LCD for current and voltage
- output mass free
- switching current (type 2223.13)



## technical parameter

specification	type	2223.13	2224.9	2224.81
DC output voltage		0-30V	0-30V	0-24V
DC output current		0-2,5A	0-5A	0-10A
CV stability net +5/-7%		15mV	<2mV	<2mV
CV stability load 0-100%		30mV	50mV	50mV
CV remaining ripple U <sub>eff</sub>		2mV	<2mV	<1mV
CC stability net +5/-7%		2,5mA	<3mA	<3mA
CC stability load 0-100%		5mA	<4mA	3mA
CC remaining ripple I <sub>eff</sub>		2mA	2mA	3mA
correction time load 10-100%		100µs		
adjuster U <sub>output</sub> / I <sub>output</sub>		2*	1*	2*
dissolution of adjusting characteristic		0,10% U / I		
display for U / I		Digital LCD 13mm 3½-digit		
output connector		4mm sockets		
cooling		convection	controlled regulator	
switching current		3 step 0- 25mA, 0- 250mA and 0- 2,5A		
display tolerance		0-25mA +/-0,5mA; 0-250mA +/-2mA und 0-2,5A +/-10mA +/- 1 Digit		
operating temperature		0 - 35°C		
max. relative humidity		85% by 35°C		
AC input voltage		230 V +6 / -10% 48-62Hz		
AC testing voltages		EN		
safety class		I		
manufactured		DIN VDE 0551 ; DIN VDE 0875 Teil 11 curve B; EN 61010; EN 61000-6		
dimensions WxHxD mm		185x120x220	260x150x230	
weight kg		4 kg	5,5 kg	8,5 kg

1\*- wire-wound potentiometers / potentiometer 270°  
2\*- wire-wound potentiometers / wire-wound potentiometers