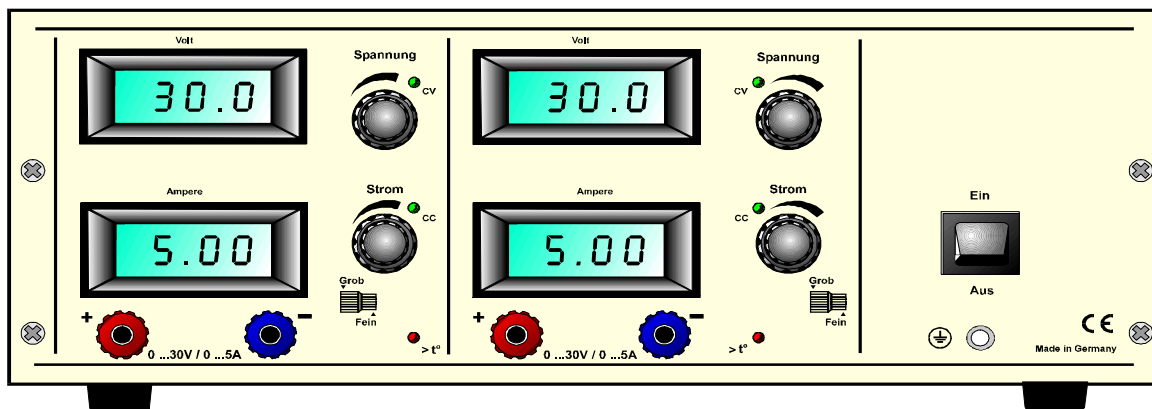


多路输出型直流电源，品牌：RICHWATER

通道数	型号	第1路	第2路	第3路	第4路
2	PD6152	0 - 24V / 0 - 6A	0 - 24V / 0 - 6A		
2	PD6155	0 - 24V / 0 - 10A	0 - 24V / 0 - 10A		
2	PD2156	0 - 30V / 0 - 5A	0 - 30V / 0 - 5A		
2	PD2281	0 - 35V / 0 - 4A	0 - 35V / 0 - 4A		
2	PD5192	0 - 40V / 0 - 2.5A	0 - 40V / 0 - 2.5A		
2	PD3121	0 - 40V / 0 - 10A	0 - 40V / 0 - 10A		
2	PD6153	0 - 48V / 0 - 3A	0 - 48V / 0 - 3A		
2	PD2159	0 - 60V / 0 - 2.5A	0 - 60V / 0 - 2.5A		
2	PD3124	0 - 60V / 0 - 5A	0 - 60V / 0 - 5A		
2	PD3123	0 - 80V / 0 - 5A	0 - 80V / 0 - 5A		
3	PD2285	0 - 24V / 0 - 10A	0 - 24V / 0 - 10A	5V / 5A	
3	PD5195	0 - 32V / 0 - 3A	0 - 32V / 0 - 3A	5V / 3A	
3	PD6154	0 - 35V / 0 - 5A	0 - 35V / 0 - 5A	5V / 5A	
4	PD7153	0 - 40V / 0 - 1.5A	0 - 30V / 0 - 2.5A	0 - 30V / 0 - 2.5A	5V / 3A
4	PD7271	0 - 40V / 0 - 3A	0 - 30V / 0 - 4A	0 - 30V / 0 - 4A	5V / 5A
4	PD5281	0 - 30V / 0 - 3A	+15V / 0.5A	-15V / 0.5A	5V / 1A

Equipment qualities

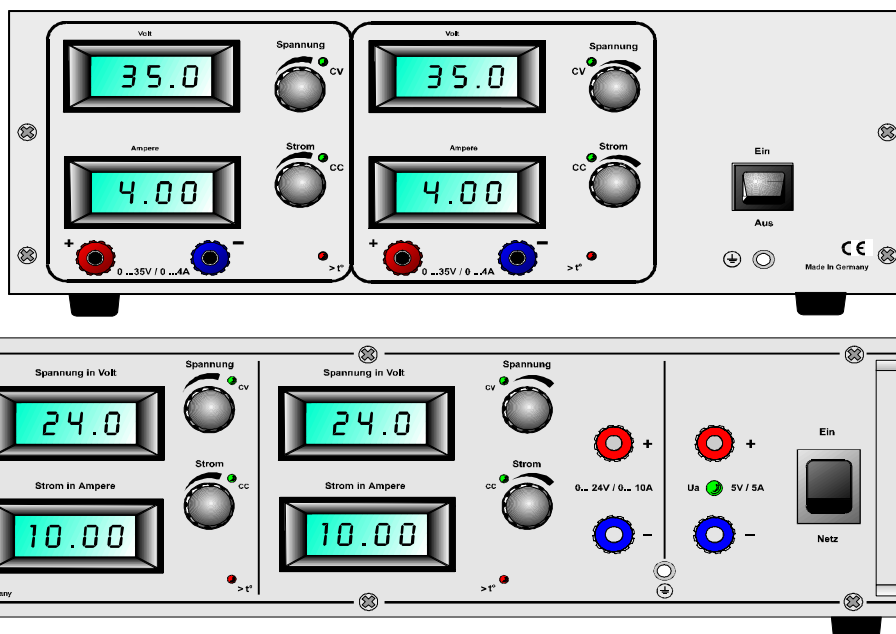
- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switchover cv/cc
- Excess temperature display by LED
- separate LCD for current and voltage


technical parameter

	Specification	type	PD2156		PD2159	
DC	output voltage		0-30V	0-30V	0-60V	0-60V
DC	output current		0-5A	0-5A	0-2,5A	0-2,5A
	CV stability net +5/-7%		2mV	2mV	2mV	2mV
	CV stability load 0-100%		50mV	50mV	50mV	50mV
	CV remaining ripple U _{eff}		1mV	1mV	1mV	1mV
	CC stability net +5/-7%		3mA	3mA	3mA	3mA
	CC remaining ripple I _{eff}		3mA	3mA	3mA	3mA
	correction time load 10-100%		200μs			
	adjuster U _{output} / I _{output}		wirewound potentiometers ten turns / potentiometer 270°			
	adjuster I _{output}		potentiometer 270°		wirewound potentiometers ten turns	
	dissolution of adjusting		0,10%			
	characteristic		U / I			
	display for U / I		LCD 13mm 3½-digit			
	Operating temperature		0 - 35°C			
	output connector		4mm sockets		4mm safety sockets	
	max. relative humidity		85% bei 35°C			
AC	input voltage		230 V +5% / -7% 50Hz			
AC	testing voltages		EN 61010 ; EN 61558-2-4			
	safety class		I			
	dimensions WxHxD mm		360 x 150 x 230			
	weight		14			
	electromagnetic compatibility		EN 61000-6-3 ; EN 61000-6-2			

Equipment qualities

- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- Excess temperature display by LED
- separate LCD for current and voltage

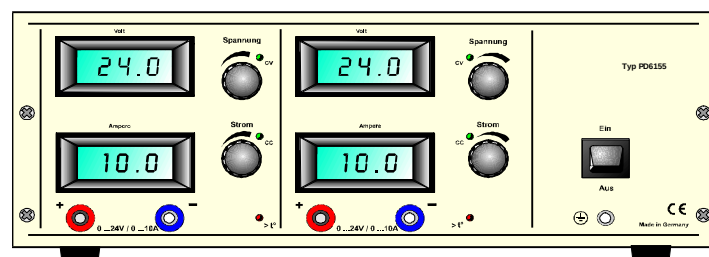
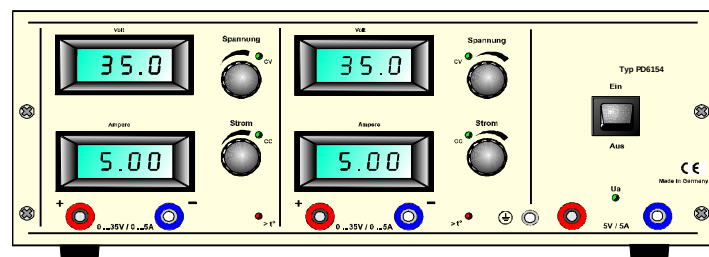
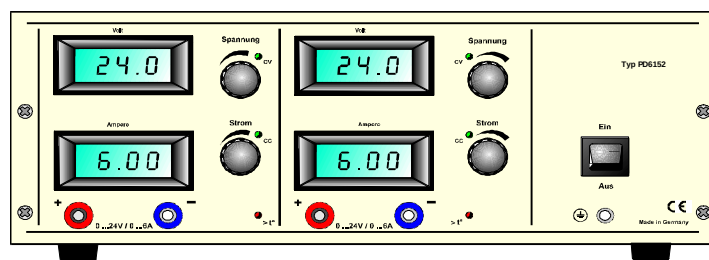


technical parameter

	Specification	type	PD2281		PD2285			
DC	output voltage		0-35V	0-35V	0-24V	0-24V	5V	
DC	output current		0-4A	0-4A	0-10A	0-10A	5A	
	CV stability net +10%/-5%		2mV	1mV	2mV	2mV	5mV	
	CV stability load 0-100%		60mV	80mV	50mV	50mV	30mV	
	CV remaining ripple Ueff		2mV	2mV	1mV	1mV	1mV	
	CC stability net +10%/-5%		3mA	3mA	3mA	3mA		
	CC remaining ripple I eff		3mA	3mA	3mA	3mA		
	correction time load 10-100%		100µs					
	adjuster Uoutput / Ioutput		wirewound poti / poti 270°	wirewound/wirewound			output constant	
	dissolution of adjusting		0,10%					
	characteristic		U / I					Foldback
	display for U / I		LCD 13mm 3½-digit					LED
	Operating temperature		0 - 35°C					
	output connector		4mm sockets					
	max. relative humidity		85% by 35°C					
AC	input voltage		230 V +5% / -7% 50Hz					
AC	testing voltages		EN 61010 ; EN 61558-2-4					
	safety class		I					
	dimensions WxHxD mm		360 x 150 x 230		451 x 134 x 324			
	weight		11		14			
	electromagnetic compatibility		EN 61000-6-3 ; EN 61000-6-2					

equipment qualities

- linear regulator
- excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- separate LCD for current and voltage
- output mass free

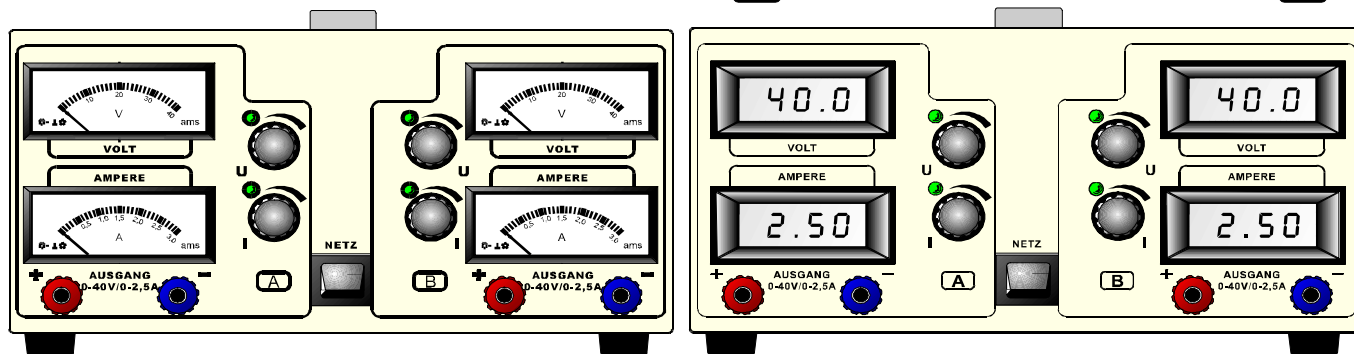
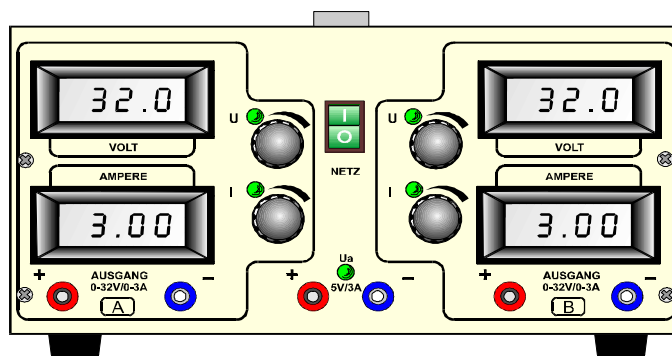


technical parameter:

	Specification	type	PD6152		PD6154			PD6155	
DC	output voltage		0-24V	0-24V	0-35V	0-35V	5V	0-24V	0-24V
DC	output current		0-6A	0-6A	0-5A	0-5A	5A	0-10A	0-10A
	CV stability net +5/-7%		<2mV	<2mV	<2mV	<2mV	5mV	<2mV	<2mV
	CV stability load 0-100%		50mV	50mV	40mV	40mV	30mV	50mV	50mV
	CV remaining ripple U _{eff}		<1mV	<1mV	<2mV	<2mV	1mV	<1mV	<1mV
	CC stability net +5/-7%		<3mA	<3mA	<3mA	<3mA		<3mA	<3mA
	CC remaining ripple I _{eff}		<25mA	<25mA	<25mA	<25mA		<25mA	<25mA
	correction time load 10-100%		100μs						
	adjuster U _{output} / I _{output}		wirewound potentiometers / wirewound potentiometers						
	dissolution of adjusting		0,10%						0,10%
	characteristic		U / I					fold-back	U/I
	display for U / I		LCD 13mm 3½-digit					LED	LCD 3½ digit
	operating temperature		0 - 35°C						
	max. relative humidity		85% by 35°C						
AC	input voltage		230 V +5 / -7% 50Hz						
AC	testing voltages		EN 61010 ; 61558-2-4						
	safety class		I						
	electromagnetic compatibility		61000-6-3 ; EN 61000-6-2						
	dimensions WxHxD mm		360 x 150 x 230						
	weight kg		ca. 14kg						

Equipment qualities

- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- separate LCD for current and voltage
- output mass free

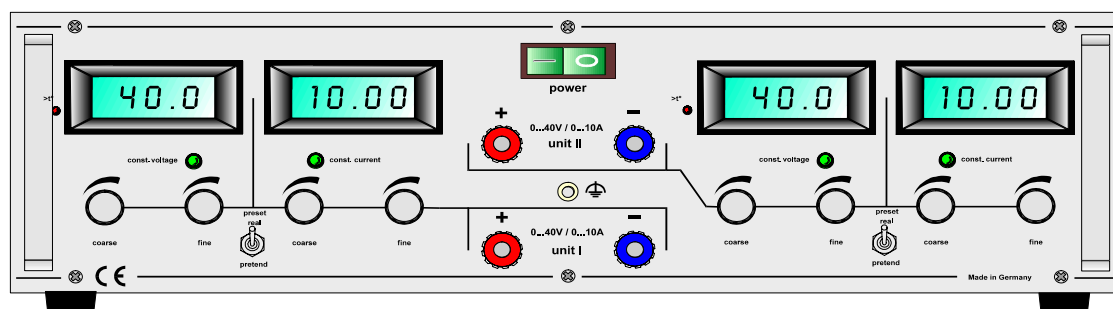


technical parameter

	specification \ type	PD5191		PD5192		PD5195			
DC	output voltage	0-40V	0-40V	0-40V	0-40V	0-32V	0-32V	5V	
DC	output current	0-2,5A	0-2,5A	0-2,5A	0-2,5A	0-3A	0-3A	3A	
	CV stability net +5/-7%	20mV	20mV	20mV	20mV	20mV	20mV	5mV	
	CV stability load 0-100%	40mV	40mV	40mV	40mV	40mV	40mV	30mV	
	CV remaining ripple U _{eff}	2mV	2mV	2mV	2mV	2mV	2mV	1mV	
	CC stability net +5/-7%	2,5mA	2,5mA	2,5mA	2,5mA	2,5mA	2,5mA		
	CC stability load 0-100%	5mA	5mA	5mA	5mA	5mA	5mA		
	CC remaining ripple I _{eff}	30mA	30mA	30mA	30mA	30mA	30mA		
	correction time load 10-100%	100μs							
	adjuster U _{output} / I _{output}	wirewound potentiometers /potentiometer 270°				wirewound potentiometer			
	dissolution of adjusting	0,10%							
	characteristic	U / I							
	display for U / I	analog class 5		digital LCD 3½ digit 13mm				LED	
	operating temperature	0 - 35°C							
	max. relative humidity	85% by 35°C							
AC	input voltage	230 V +6 / -10% 50Hz							
AC	testing voltages	EN 61010 ; EN 61558-2-4							
	safety class	I							
	electromagnetic compatibility	EN 61000-6-3 ; EN 61000-6-2							
	dimensions WxHxD mm	260x140x230							
	weight kg	ca. 8kg				ca. 8,5kg			

Equipment qualities

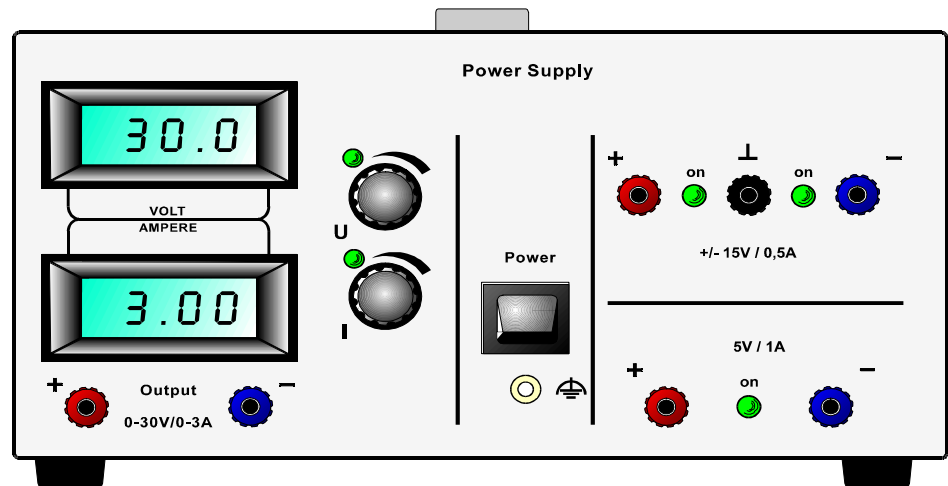
- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- excess temperature display by LED
- separate LCD for current and voltage
- output mass free


technical parameter

	Specification \ type	PD3121		PD3124		PD3123	
DC	output voltage	0-40 V	0-40 V	0-60V	0-60V	0-80V	0-80V
DC	output current	0 - 10 A	0 - 10 A	0 - 5A	0 - 5A	0 - 5 A	0 - 5 A
	CV stability net +5/-7%	1mV	1mV	1mV	1mV	1mV	1mV
	CV stability load 0-100%	3mV	3mV	3mV	3mV	3mV	3mV
	CV remaining ripple U _{eff}	2mV	2mV	2mV	2mV	2mV	2mV
	CC stability net +5/-7%	1mA	1mA	1mA	1mA	1mA	1mA
	CC stability load 0-100%	2mA	2mA	2mA	2mA	2mA	2mA
	CC remaining ripple I _{eff}	4mA	4mA	4mA	4mA	4mA	4mA
	correction time load 10-100%	200 μs	200 μs	200 μs	200 μs	200 μs	200 μs
	adjuster U _{output} / I _{output}	coarse and fine 1: 10					
	dissolution of adjusting	0,05%					
	characteristic	U / I					
	display for U / I	LCD Display 13mm 3½ - digit					
	Operating temperature	0 - 20 - 35°C					
	output connector	4mm sockets	4mm safety sockets				
	max. relative humidity	85% by 35°C					
AC	input voltage	230 V +6 / -7% 50Hz					
AC	testing voltages	EN 61010 ; EN 61558-2-4					
	safety class/degree of protection	I / IP30					
	electromagnetic compatibility	EN 61000-6-3 : EN 6100-6-2					
	dimensions WxHxD mm	451x134x410					
	weight kg	23					

equipment qualities

- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- separate LCD for current and voltage
- output mass free

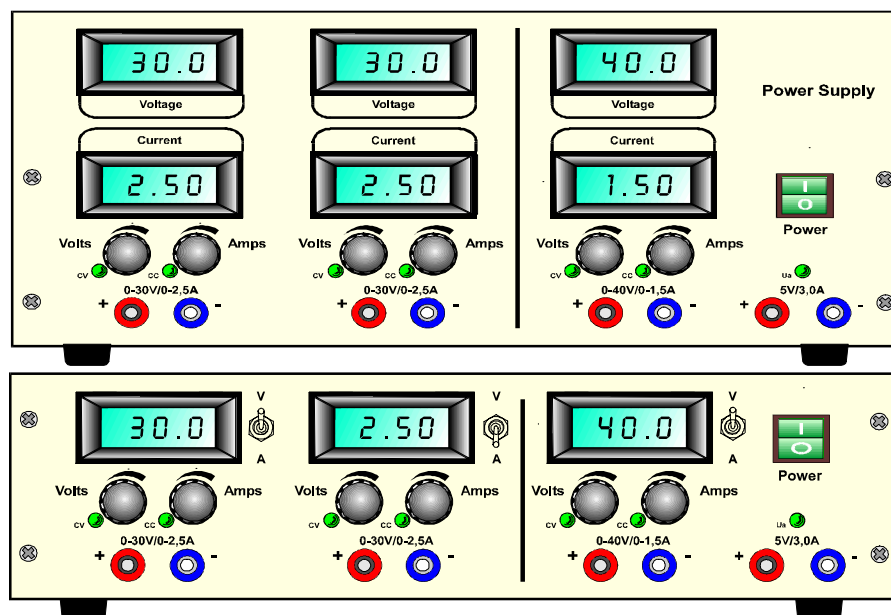


technical parameter:

	specification	type	PD5281			
DC	output voltage	0-30V	5V	-15V	+15V	
DC	output current	0-3,0A	1A	0,5A	0,5A	
	CV stability net +5/-7%	15mV	5mV	10mV	10mV	
	CV stability load 0-100%	30mV	30mV	30mV	30mV	
	CV remaining ripple Ueff	2mV	1mV	2mV	2mV	
	CC stability net +5/-7%	2,5mA				
	CC stability load 0-100%	5mA				
	CC remaining ripple I eff	2mA				
	correction time load 10-100%	100µs				
	adjuster Uoutput / Ioutput	wirewound potentiometers/poti 270°				
	dissolution of adjusting	0,10%				
	characteristic	U / I	fold back			
	display for U / I	LCD 13mm 3½-digit; LED for fix voltage				
	operating temperature	0 - 35°C				
	output connector	4mm sockets				
	max. relative humidity	85% by 35°C				
AC	input voltage	230 V +5% / -7% 50Hz				
AC	testing voltages	EN 61010 ; EN 61558-2-4				
	safety class	I				
	dimensions WxHxD mm	260 x 140 x 230				
	weight kg	7				
	electromagnetic compatibility	EN 61000-6-3 ; EN 61000-6-2				

Equipment qualities

- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- separate LCD for current and voltage
- output mass free

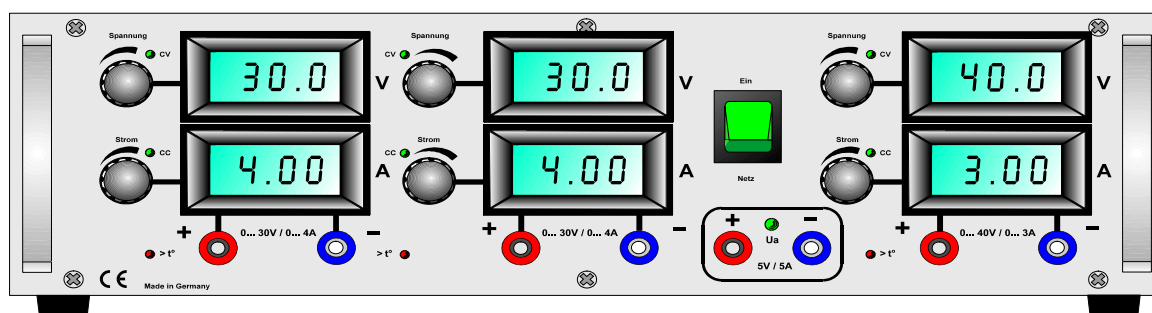


technical parameter

	Specification	type		PD7151		PD7152		PD7153		PD7154	
		5 V Quelle in all 4 types									
DC	output voltage	2x0-30V	0-40V	2x0-30V	0-40V	5V	2x0-30V	0-40V	2x0-30V	0-40V	
DC	output current	2x0-2,5A	0-1,5A	2x0-2,5A	0-1,5A	3A	2x0-2,5A	0-1,5A	2x0-2,5A	0-1,5A	
	CV stability net +5/-7%	15mV	20mV	15mV	20mV	5mV	15mV	20mV	15mV	20mV	
	CV stability load 0-100%	30mV	30mV	30mV	30mV	30mV	30mV	30mV	30mV	30mV	
	CV remaining ripple Ueff	2mV	2mV	2mV	2mV	1mV	2mV	2mV	2mV	2mV	
	CC stability net +5/-7%	2,5mA	2,5mA	2,5mA	2,5mA		2,5mA	2,5mA	2,5mA	2,5mA	
	CC stability load 0-100%	5mA	4mA	5mA	4mA		5mA	4mA	5mA	4mA	
	CC remaining ripple I eff	2mA	2mA	2mA	2mA		2mA	2mA	2mA	2mA	
	correction time load 10-100%	100µs									
	adjuster Uoutput / Ioutput	wirewound potentiometers ten turns / wirewound potentiometers ten turns									
	dissolution of adjusting	0,10%									
	characteristic	U / I				Fold ba	U / I				
	display for U / I	digital switching		analog switching		LED	digital U and I		analog U and I		
	output connector	4 mm safety sockets									
	Operating temperature	0 - 35°C									
	max. relative humidity	85% by 35°C									
AC	input voltage	230 V +6 / -10% 50Hz									
AC	testing voltages	EN 61010 ; EN 61558-2-4									
	safety class	I									
	electrmagnetic compatibility	EN 61000-6-3 ; EN 61000-6-2									
	dimensions WxHxD mm	380x110x300		380x110x300			380x160x300		380x160x300		
	weight kg	ca. 16kg					ca.16,5kg				

Equipment qualities

- Linear regulator
- Excess temperature protection
- short-circuit proof
- galvanically separated to input
- automatic switch over cv/cc
- separate LCD for current and voltage
- output mass free



technical parameter:

	Specification	type	PD7271			
DC	output voltage		0-30V	0-30V	0-40V	5 V
DC	output current		0-4A	0-4A	0-3A	5A
	CV stability net +5/-7%		2mV	2mV	2mV	5mV
	CV stability load 0-100%		40mV	40mV	40mV	50mV
	CV remaining ripple U _{eff}		2mV	2mV	2mV	2mV
	CC stability net +5/-7%		2mA	2mA	3mA	
	CC stability load 0-100%		3mA	3mA	3mA	
	CC remaining ripple I _{eff}		2mA	2mA	3mA	
	correction time load 10-100%		100μs			
	adjuster U _{output} / I _{output}		wirewound potentiometers ten turns / wirewound potentiometers ten turns			
	dissolution of adjusting		0,10%			
	characteristic		U / I			
	display for U / I		LCD 13 mm 3½-digit			LED
	Operating temperature		0 - 35°C			
	output connector		4 mm sockets			
	max. relative humidity		85% by 35°C			
AC	input voltage		230 V +5% / -7% 48-62Hz			
AC	testing voltages		EN 61010 ; EN 61558-2-4			
	safety class		I			
	dimensions WxHxD mm		451 x 134 x 324			
	weight kg		19			
	electromagnetic compatibility		EN 61000-6-3 ; EN 61000-6-2			