

**60Vdc, 100Vdc, 200Vdc and 250Vdc power supplies
with braking resistor electronics control**



- ✓ Compact size
- ✓ Single phase or three phase AC input
- ✓ Power On led indicator
- ✓ Circuit for quick filter capacitors discharge
- ✓ Easy DIN rail installation
- ✓ IP20-compliant construction
- ✓ Low cost

More, only for DP1xx2 models:

- ✓ Braking resistor control
- ✓ Free setting of the braking resistor intervention voltage
- ✓ Working braking resistor led indicator
- ✓ Interrupted braking resistor led indicator

This unregulated power supplies series contains, in a compact design, all the components necessary to obtain a DC voltage from the output of a transformer.

Designed to work both with single phase and three phase inputs, they are the ideal solution to supply drivers and other devices operating at low and medium voltage.

The case is suitable for DIN rail mounting and the heat sink inside allows in many cases to work without forced cooling.

The input and output connection is through removable, colored and numbered terminal blocks for a quick and simple wiring.

Each model is provided with a power supply status led indicator and with a particular electronic circuit that discharges the filter capacitors quickly in the absence of input voltage.

The DP1xx2 models are provided with a built-in electronic circuit for the braking resistor control. This feature is useful to dissipate the energy in excess when the powered device acts like a generator.

This happens frequently, for example, during motors deceleration activity (braking). The braking resistor assures that the bus DC voltage never exceeds the maximum accepted by the powered device.

The braking resistor intervention threshold can be easily modified through the trimmer frontally placed on the panel.

An optimal diagnostics is given by a led signaling the braking resistor intervention and the interrupted or disconnected resistor status.



Symbol	Description	Value			Unit
		Min	Typical	Max	
VL	AC supply voltage	DP1651, DP1652		42	Vac
		DP1741, DP1742		68	
		DP1831, DP1832		135	
		DP1931, DP1932		170	
Vp	DC output voltage	DP1651, DP1652		60	Vdc
		DP1741, DP1742		100	
		DP1831, DP1832		200	
		DP1931, DP1932		250	
Ip1ph	Output current available from single phase AC input	DP1651, DP1652		12	Arms
		DP1741, DP1742		8	
		DP1831, DP1832		6	
		DP1931, DP1932		6	
Ip3ph	Output current available from three phase AC input	DP1651, DP1652		16	Arms
		DP1741, DP1742		16	
		DP1831, DP1832		12	
		DP1931, DP1932		12	
Cfc	Filter capacitors capacitance	DP1651, DP1652	12,000		µF
		DP1741, DP1742	6,000		
		DP1831, DP1832	3,000		
		DP1931, DP1932	2,000		
Cft	Filter capacitors discharge time		90		s
Rbrk	Braking resistor	DP1652	5	1,000	Ω
		DP1742	10	1,000	
		DP1832	15	1,000	
		DP1932	15	1,000	
Vrbon	Braking resistor intervention voltage	DP1652	20	60	Vdc
		DP1742	50	100	
		DP1832	100	200	
		DP1932	130	250	
Vrbh	Hysteresis voltage between braking resistor power on and power off (only for DP1xx2 models)		4		Vdc
Mechanical Specifications					
FDh	Height		100.4		mm
FDI	Depth		119.0		mm
FDw	Width		35.0		mm
FDnw	Weight	DP1651, DP1741, DP1831, DP1931	320		gr
		DP1652, DP1742, DP1832, DP1932	350		
Rated range of use					
FCa	Altitude			2,000	m
FCt	Temperature	0		50	°C
FCh	Humidity (no condensing)	10		90	%
Conditions of storage and transport					
SCa	Altitude			4,000	m
SCt	Temperature	-20		60	°C
SCh	Humidity (no condensing)	5		95	%



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