

Uninterruptible Power Supply Systems of UPSDC and DCUPSDC Series with DC Output Voltage with Output Power from 40W to 1100W

Uninterruptible power supply systems with **DC output voltage** (UPSDC Systems) of the nominal value of **12VDC, 24VDC, 36VDC and 48VDC** are offered with the output power in the range from **40W to 1100W** according to the below table. They are designed especially for use in automation technology, security systems and telecommunications.

The system is created with an **AC/DC power supply, a back-up battery and an additional electronic board**. **If the AC power is present** the power supply feeds the supplied device and the maintenance-free sealed lead-acid back-up battery is charged with a defined charging current according to the rectangular constant current - constant voltage characteristic curve at the same time. **After input AC power outage** the device is powered from the battery. There is no voltage outage on the output of the power supply system, because the **transition from AC/DC power supply to battery power is continuous and without any interruption**. If the battery voltage decreases below the certain minimum value, the battery is disconnected from the powered device automatically. The system is activated again after input AC power recovery.

UPSDC System is equipped with a compensation of the temperature dependence of the battery voltage, with circuit for signaling and LED indication of AC input power outage, decrease of the battery voltage under the certain minimum value, state of the fully charged battery and state of the defective battery. Capacity of the battery there is possible to choose in accordance to the backed-up power and requested battery run time after input AC outage. There is possible to set the battery charging current share and the maximum output current to the powered device according to customer's wish in dependence on device consumption, battery type and demand on speed of recharging the battery after input AC power recovery.

There is also possible to add a circuit for **periodic testing of the battery state** as an option to the system. **You will find more detailed information of all offered UPSDC Systems in the detailed data sheets.**

Survey of Uninterruptible Power Supply Systems with DC Output

TYP:	UPSDC-40W	UPSDC-40W-WT	UPSDC-80W	DCUPSDC	UPSDC-110W	UPSDC-200W	UPSDC-350W (-CAM)	UPSDC-550W (-CAM)	UPSDC-1K1
Output power:	40W	40W	80W	92W	110W	200W	350W	550W	1100W
Input voltage:	90-264VAC 120-370VDC	90-264VAC 120-370VDC	90-264VAC 120-370VDC	36-75VDC /*	90-264VAC 120-370VDC	90-127VAC 180-253VAC	90-127VAC 180-253VAC	90-127VAC 180-253VAC	180-253VAC
output 12V (10-13.8V) load / battery current:	2.3A/1A	-	5A/2A	5A/2A	7A/2A	-	-	-	-
output 24V (20-27.2V) load / battery current:	1.1A/0.5A	0.85A/0.8A	2.5A/1A	-	4A/0.5A	7A/2A	10A/4A (3A/10A)	13A/7A (6A/15A)	28A/12A
output 36V (30-40.8V) load / battery current:	-	-	-	-	-	3A/1.5A	-	-	-
output 48V (40 / 42 - 54.4 / 54V) load / battery current:	0.5A/0.2A	-	-	-	-	3A/1A	5A/2A	-	-
Temp. compensation	X	X	X	X	X	-	-	-	-
AC outage signal / indication	X	X	X	X	X	X	X	X	X
Battery full signal / ind.	X	X	X	X	(X)	X	X	X	X
Battery low signal / ind.	X	X	X	X	(X)	X	X	X	X
Batt. defect signal / ind.	X	X	X	X	(X)	X	X	X	X
Battery disconnection	X	X	X	X	X	X	X	X	X
Exter. / Internal battery	E	E	E	E	I	E	E	E	E
Operat. Temp. Range (max. output power)	0°C - 50°C -25°C - +50°C	-40°C - +70°C	0°C - +50°C -25°C - +50°C	-25°C - +70°C	0°C - +50°C -25°C - +50°C	-20°C - +40°C -25°C - +40°C			
Dimensions (mm)	150x115x80	195x150x80	195x150x80	145x145x40	172x115x310	233x160x100	300x105x190	300x105x190	300x420x110
Weight (kg)	0.67	1.3	1.3	0.35	7.3 incl. batt.	1.5	2,5	3,1	6

/* Note: Type DCUPSDC is a system with DC input voltage only