Ultra-Cap-Voltage-Stabilizer (UCVS)

J. Schneider
Elektrotechnik

Be prepared for the next blackout / Keep your process running

Ultra-Cap-Voltage-Stabilizer (UCVS)

The ideal solution when voltage drops or short-term power outages are a problem in your process.
UCVS is a high performance and high efficiency system that ensures continuous power supply in modern industrial processes. It offers optimal protection against problems with the quality of the supply voltage.
To ensure a continuous power supply in the event of power problems, the UCVS uses a modular energy storage and inverter system. As energy storage ultra capacitors are used. Ultra capacitors can buffer for several seconds during power quality issues. Ultra capacitors have an extremely high power density and they are designed for a long life operation in a very compact and low maintenance solution.
In today's industry, harsh electrical conditions prevail. The UCVS need to be installed parallel to the load and supplies the load directly with energy in case of voltage dips. The so-called online system supplies the consumer continuously. Even in case of a power failure, the energy is available and the consumer has no interruption. Unlike conventional voltage stabilizers, the UCVS offers an uninterrupted and over seconds long solution. Even with voltage dips of 0 volts, the consumer remains powered.

Applications

Higher productivity, reduced downtime and higher manufacturing quality with minimized total cost of ownership

Semiconductor manufacturing, test benches and assembly lines:
Production lines for the production of electrical components have to run 24/7 to meet today's demand. We have installed numerous systems worldwide at well-known companies, which together have a capacity of several MVA.

Medicine:
To ensure that the production will not be interrupted by power outages, voltage dips and other electrical noise, power protection is required. The UCSV protects leading medical manufacturers against such events.

Data centres:
The UCVS protects data centres and servers against voltage drops and surges. The system supports, for example, one of the data centres of the Czech Armed Forces.

Paper industry:
Due to the continuous process of producing paper, a short-term submission is very costly. A Swedish company relies on the UCVS to avoid voltage dips and to keep the process going. A voltage dip of less than 1 second causes the frequency converter to fail. The ROI already takes place after two short voltage dips.

High-speed packaging lines:
Voltage fluctuations cause serious disturbances on high-speed packaging lines. The UCVS protects many high-speed packaging lines worldwide.

Product Range

Models		1000 C	3000 C
INPUT	Nominal voltage	220 - 230 - 240 Vac 1ph	
	Nominal frequency	50 / 60 Hz	
	Power factor	> 0,99	
	Current distortion	≤ 7%	
OUTPUT	Nominal power (VA)	1000	3000
	Power (W)	800	2700
	Nominal voltage	220 - 230 - 240 Vac 1ph	
BACKUP	Autonomy @100% load	3 s	4 s
	Recharge time (min)	< 10 min	
DATA	Net weight (kg)	13	19
	Dimensions (H x W x D)	235 x 158 x 422	333 x 190 x 446

Product Range

Models		MLT C 60	MLT C 80	MLT C 100	MLT C 125	MLT C 160	MLT C 200*
INPUT	Nominal voltage	3ph Vac					
	Nominal frequency	50 / 60 Hz					
	Power factor	> 0,99					
	Current distortion	≤ 3%					
OUTPUT	Nominal power (VA)	60000	80000	100000	125000	160000	200000
	Power (W)	54000	72000	90000	108000	160000	200000
	Nominal voltage	3ph Vac					
BACKUP	Autonomy @100% load	4 s	10 s	8 s	5 s	5 s	4 s
	Recharge time (min)	15 - 30 min					
DATA	Net weight (kg)	190 + 190	220 + 410	220 + 410	300 + 410	450 + 410	460+410+410
	Dimensions (H x W x D) (mm)	1 x 1600 x 500 x 850 / 1 x 1900 x 860 x 800				1 x 1600 x 500 x 850/ 1 x (*x2) 1900 x 860 x 800	

Models		MP C 100	MP C 120	MP C 160	MP C 200
INPUT	Nominal voltage	3ph Vac			
	Nominal frequency	50 / 60 Hz			
	Power factor	> 0,99			
	Current distortion	≤ 3%			
OUTPUT	Nominal power (VA)	100000	120000	160000	200000
	Power (W)	90000	108000	144000	180000
	Nominal voltage	3ph Vac			
BACKUP	Autonomy @100% load	10 s	8 s	69 s	4 s
	Recharge time (min)	15 - 30 min			
DATA	Net weight (kg)	640 + 400	650 + 400	770 + 400	810 + 410
	Dimensions (H x W x D) (mm)	1 x 1900 x 800 x 800 / 1 x 1900 x 860 x 800			

Models		MP HIP C 200	MP HIP C 250	MP HIP C 300	MP HIP C 400	MP HIP C 500	MP HIP C 600
INPUT	Nominal voltage	3ph Vac					
	Nominal frequency	50 / 60 Hz					
	Power factor	> 0,99					
	Current distortion	≤ 3%					
OUTPUT	Nominal power (VA)	200000	250000	300000	400000	500000	600000
	Power (W)	180000	225000	270000	360000	450000	540000
	Nominal voltage	3ph Vac					
BACKUP	Autonomy @100% load	4 s	3 s	4 s	2 s	5 s	4 s
	Recharge time (min)	15 - 30 min					
DATA	Net weight (kg)	190 + 190	220 + 410	220 + 410	300 + 410	450 + 410	460+410+410
	Dimensions (H x W x D) (mm)	1900 x 1000 x 850 + 1900 x 860 x 800		1900 x 1500 x 850 + 1900 x 860 x 800		1900 x 2100 x 850 + 1900 x 860 x 800	

Contact

If you have any further questions please don‘t hesitate to contact us :

J. SCHNEIDER ELEKTROTECHNIK GMBH
HELMHOLTZSTRASSE 13
77652 OFFENBURG / GERMANY
+ 49 781 206 0
INFO@J-SCHNEIDER:DE
WWW.J-SCHNEIDER:DE

Or our representativ:

J. Schneider
Elektrotechnik