

Uninterruptible Power Safety with 100% digital technology 10-120kVA

The top of power safety

Modern IT systems such as host computers, file servers, workstations and computing centres, and their integration into complex networks have become indispensable for the competitiveness of manufacturing and service industries. However, a smooth and uninterrupted supply of electricity is an essential precondition for the trouble free performance of such systems. Malfunctions in the mains supply such as power failure, voltage fluctuation or short power interruptions lasting less than a millisecond, may cause loss of important data, program errors or even hardware damage, thereby posing a serious threat to production processes.

Protection around the clock

Protect 3.31, the new generation UPS not only gives online equipment round the clock protection, but also offers a technically advanced and economic solution for the power supply requirements of modern data-processing equipment.

For more information on our full range of UPS systems or for a full quotation, please telephone AVK | SEG (UK) LTD on 01628 503900.

Key Features

- Low operating costs
- Excellent dynamic response
- Separate microprocessors for rectifier, inverter and SBS unit
- High efficiency, even in part-load range
- Communication with all standard computers and networks
- Integrated (SNMP) network interface option available
- Automatic shut down and reboot operations for all common EDP-systems
- VT100 emulation for IBM-users
- Battery-circuit monitoring
- Modern computer design, compact in size, low noise level
- Ergonomic display for ease of operation and start-up
- Complies with the specifications of all leading computer manufacturers
- Wide range of options available
- CE - compliant
- Redundant fans



PROTECT 3.31

Specification

Type Protect 3.31	10	20	30	40	60	80	100	120
Type power at $\cos \varphi = 0,8$ lag. (kVA)	10	20	30	40	60	80	100	120
RECTIFIER UNIT								
Rated connected voltage	3 x 380 Vac; 3 x 400 Vac; tolerance $\pm 15\%$							
Frequency	50 Hz $\pm 10\%$ or 60 Hz $\pm 10\%$							
Current consumption max. (A)	21.5	43	62.5	84	125	166	206	247
Start current	$\leq I_{nom}$							
INVERTER UNIT								
Rated DC voltage	384 Vdc operating with lead-acid or NiCd batteries							
Rated AC voltage	1 x 230 Vac or 1 x 220 Vac or 1 x 240 Vac							
Setting range for output voltage	$\pm 5\%$ at nominal DC voltage							
Dynamic response	at load change from 0% - 100% - 0%, voltage decline $< \pm 2\%$; recovery time approx. 1 ms							
Frequency tolerance without mains	50 Hz $\pm 0.1\%$ or 60 Hz $\pm 0.1\%$							
Frequency tolerance (sync. range)	50 Hz $\pm 1\%$ or 60 Hz $\pm 1\%$							
Power factor range	capacitive to inductive over entire $\cos \varphi$ -range							
Output phase current (A)	43	87	130	174	260	348	435	522
Max. load fuse (A)	16	25	35	50	80	100	160	160
Voltage wave form	sinusoidal							
Voltage distortion	$< 3\%$ over entire DC voltage, load and power factor ranges							
Voltage distortion with computer load	$< 2\%$ under nominal conditions							
Non-linear load	up to 100% of UPS nominal load							
Crest factor	3, harmonic distortion $< 3\%$							
Overload response	overload 150% for 1 min.; 125% for 10 min.							
Short circuit response	short circuit proof, short circuit current $2.7 \times I_{nom}$							
STATIC BYPASS SWITCH								
Rated connected voltage	230 Vac or 240 Vac or 220 Vac 1 phase + neutral							
Frequency	50 Hz or 60 Hz							
Rated connected power (kVA)	10	20	30	40	60	80	100	120
Overload	500%							
GENERAL DATA								
Efficiency total (%)	91	91	91	92	92	93	93	93
Noise level	55-65 dB(A) measured at 1 m distance at half the unit height							
EMC emissions	to EN 50091-2, class "A"							
EMC immunity	to EN 50082-2							
Operating-temperature range	-5°C to $+40^{\circ}\text{C}$							
Storage-temperature range	-35°C to $+75^{\circ}\text{C}$							
Type of cooling	reinforced natural air cooling with integrated redundant fans							
Installation height	up to 1000 m above sea level at nominal load							
Protective system	IP 20 to IEC 529/EN 60529							
Equipment colour	RAL 7022/7044, powder coated							
Size W x H x D (mm)								
10 kVA, 20 kVA	600x1700x715							
30 kVA	750x1700x715							
40 kVA, 60 kVA	1200x1700x715							
80 kVA, 100 kVA, 120 kVA	1200x1900x900							
Weight (kg)	340	350	460	470	530	820	880	930