



# INFINITY 3100 UP SRANGE

10-20kVA

## Single Phase Uninterruptible Power Supply (UPS) from 10 to 20kVA

### Infinity 3100 Range

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 pre-condition 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 business processes.

### Protection around the clock

The AVK Infinity UPS range 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.

The Infinity range offers true double-conversion on-line technology, high frequency conversion, digital control input, power factor > 0.8, low noise level, high efficiency, emergency circuit (EPO) for immediate shutdown. All these are characteristics allowing us to confirm that Infinity range systems are an expert solution for any type of power supply requirement you may have.

**Key features:**

- On-line double conversion technology
- Pure sine wave
- Input Power factor > 0.8
- IGBT rectifier and inverter
- Microprocessor controlled
- High efficiency
- Low acoustic noise level
- Remote communication
- Auto diagnostic system
- Options: SNMP adapter , Remote communication

For more information on our full range of UPS systems or for a full quotation, please telephone us on 01628 503900





# AVK INFINITY UPS SERIES

## Single Phase Uninterruptible Power Supply (UPS) from 10 to 20kVA SPECIFICATION

POWER - kVA	10	15	20
UPS Typology	ON LINE - DOUBLE CONVERSION ACTIVE STANDBY BY OPERATION (OPTIONAL)		
Nominal output power @ P.F 0.8 (kVA)	10	15	20
Nominal output power @ P.F 0.1 ( KW)	8	12	16
Efficiency (AC / AC % (ECO mode)	>98		
Efficiency (AC / AC) - % (Online double conversion mode)	>92		
Heat Dissipation at nominal load (W)	695	1040	1390
UPS ambient temperature (°C)	0 to 40		
Battery ambient temperature (°C)	0 to 25		
UPS storage temperature (°C)	- 10 to 70		
Battery storage temperature (°C)	- 10 to 60		
Relative humidity (non condensing) %	<95		
Altitude	< 1000m(above sea level)		
Power de-rating for altitude > 1000m	Compliant to "IEC62040-3"		
Audible noise level (according EN 50091)	<52dB		
Protection degree	IP 20		
Static load (Kg/m <sup>2</sup> ) without bat (With bat)	310 (854)	340 (890)	340 (890)
Design Standard	Compliant to "EN50091" "IEC 62040" "ISO14001"		
<b>RECTIFIER AND BATTERY CHARGER</b>			
Nominal Input Voltage (Vac PH-N)	230 (+10% - 20%)		
Input Frequency (Hz)	50-60 +/- 5		
Input Power Factor	>0.99		
DC Output Voltage Accuracy	+/- 1 %		
DC Output Voltage Ripple	2% rms		
AC/DC converter type	IGBT		
Nominal Input Current (Battery charged) (A)	12	19	23
Max. Input Current Inc. Max recharge (A)	24	36	36
<b>BATTERY</b>			
Battery Type	Sealed Lead Acid Recombination		
Number of Cells	2 x 180	2 x 186	2 x 186
Floating Voltage at (°C) - Vdc	2 x 406	2 x 418	2 x 418
Minimum Discharge Voltage (Vdc)	2 x 310	2 x 310	2 x 310
Power to Inverter (@ nominal Load) (Kw)	8.5	12.7	17
Battery Protection	FUSES		
<b>INVERTER</b>			
Inverter Bridge	IGBT (transformerless)		
Nominal Output Power (P.F 0,8)	10	15	20
Nominal Output Power (P.F 1)	8	12	16
Nominal Output Current-(A) (P.F0,8)	43	65	87
(@ 230Vac output) (P.F 0,1)	35	52	70
Nominal Output Voltage - (Vac Ph-N)	220-230-240 (on request)		
Output Voltage Stability - Static	+/- 1% rms		
- Dynamic (Step Load 0 ÷ 100 % ÷ 0)	+/- 2 % rms		
- Recovery Time (after load step)	within 10 ms		
- IEC 62040-3	Classification 1		
Overload Capability	125% for 10 min 200 % for 100 msec		
<b>DIMENSIONS</b>			
(mm)	W = 450 D = 650 H = 1200		
Weights (kg) without battery (with batt)	90 (250)	100 (260)	100 (260)

09/10/2008

Power Systems House 1-3 Malvern Road Maidenhead Berkshire SL6 7QY

T: 01628 503900 F: 01628 503999 WWW.AVK-SEG.CO.UK E: powersystems@avk-seg.co.uk