



THETYS UPS RANGE

60-160kVA

Three Phase Uninterruptible Power Supply (UPS) from 60 to 160kVA

Thetys UPS 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 Thetys 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 Thetys range offers true double-conversion on-line technology, high frequency conversion, digital control input, power factor > 0.99, low noise level, high efficiency, emergency circuit (EPO) for immediate shutdown. All these are characteristics allowing us to confirm that the Thetys 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 > 0.99
- IGBT Rectifier and Inverter
- Microprocessor controlled
- High efficiency
- Low acoustic noise level
- 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





THETYS UPS RANGE

60-160kVA

Three Phase Uninterruptible Power Supply (UPS) from 60 to 160kVA SPECIFICATION

POWER - kVA	60	80	100	125	160
UPS Typology	ON LINE - DOUBLE CONVERSION				
Nominal output power @ (P.F 0,8) (kVA)	60	80	100	125	160
Nominal output power @ (P.F 1) (KW)	48	64	80	100	128
Efficiency (AC - AC) %	> 93				
(ECO mode)	>98				
Heat Dissipation @ Nominal Mode (KW)	3.8	4.8	6.0	7.5	9.6
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(m)	<1000 (above sea level)				
Power de-rating for altitude > 1000m	Compliant to "IEC62040-3" , max 2000m with 1% derating for 100m				
Audible noise level (according EN 50091)	60db				
Protection degree	IP 20				
Design Standard	Compliant to "IEC EN 62040"				
RECTIFIER					
Nominal Input Voltage (Vac)	400V + 10% -20%				
Input Frequency (Hz)	50 - 60 +/- 5				
Input Power Factor (400Vac)	>0,99				
DC Output Voltage Accuracy %	+/- 1				
DC Output Voltage Ripple % rms	1				
Max. Recharge Current at nom. load (A)	15	15	15	20	20
DCM function can increase up to (max A)	50	50	100	100	100
AC/DC converter type	IGBT PFC				
Input Protection	FUSES				
Max. Input Current Inc. Recharge (A)	94	126	157	196	252
BATTERY					
Battery Type	Sealed Lead Acid Recombination				
Number of Cells	300	300	300	300	300
Floating Voltage at 25 (°C) (VDC)	680	680	680	680	680
Minimum Discharge Voltage (VDC)	496	496	496	496	496
Input Power To Inverter					
(@ nominal Load) - kW	50	68	84	105	135
Battery Protection (external to UPS)	Wall mounted Fuse Box				
INVERTER					
Inverter Bridge	IGBT (High Frequency)				
Nominal Output Power @ (P.F 0,8)	60	80	100	125	160
Nominal Output Power @ (P.F 1)	48	64	80	100	128
Nominal Output Voltage -	380 ÷ 415				
Output Voltage Stability					
- Static (Balanced Load)	+/- 1 %				
- Dynamic (Step Load 0 - 100 % - 0)	+/- 5 %				
- Output Volt. Recovery Time after step load <20ms					
DIMENSIONS (mm)	W = 815 D = 825 H = 1670				
Weights (kg) without battery	570	600	630	662	720
Static load (Kg/m ²) without bat	948	998	1048	1101	1198

REVD 26/09/2008

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