



EVO THETYS UPS RANGE

60-160kVA

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

EVO 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 EVO 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 AVK EVO 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 EVO Thetys range systems are an expert solution for any type of power supply requirement you may have.

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

Key features:

- On-line double conversion technology
- Pure sine wave
- Input Power factor > 0.99
- IGBT Power Modules
- Microprocessor controlled
- High efficiency
- Low acoustic noise level
- Auto diagnostic system
- Options: SNMP adapter
- Remote communication





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POWER	60	80	100	125	160
UPS Type	ON LINE – Double Conversion				
Nominal output power (P.F 0.8 (kVA)	60	80	100	125	160
Nominal output power (P.F 1.0) (KW)	48	64	80	100	128
Efficiency (AC-AC) ON LINE – Double Conversion) @100% load	>94.6				
Efficiency (AC-AC) (ECO Mode)	>98				
Heat dissipation at nominal load and voltage (kW)	3.8	4.8	6.0	7.5	9.6
UPS ambient temperature °C	0 - +40				
Battery ambient temperature °C	20				
UPS Storage temperature °C	-10 to +70				
Battery Storage temperature	20-25				
Relative humidity (non condensing) %	<95				
Altitude (m)	<1000 (above sea level)				
Power de-rating for altitude > 1000m	According IEC EN 62040-3, with 1% derating every 100m above 1000m, up to max 2000m				
Audible noise level (according EN 50091) dB	<60				
Protection degree	IP20				
Design standard	IEC EN 62040 / ISO 9001:2008 / ISO 14001				
RECTIFIER					
Nominal input voltage range (Vac %)	400 or 415 (selectable) -20/+15				
Input Frequency range (Hz)	50-60 ±5				
Input power factor	>0.99				
DC output voltage accuracy %	±1				
DC output voltage ripple % rms	1				
Max. recharging current					
- At nominal load (A)	15	15	15	20	20
- With DCM function (max current)	50	50	100	100	100
AC-DC converter type	PFC IGBT				
Input protection	Fuses				
Maximum current absorbed from mains (at nom. load and max. recharging current)	94	126	157	196	252
BATTERY					
Battery type (standard) other on request	Lead sealed maintenance free				
Number of Cells	300 cells (400V working)/312 cells (415V working)				
Floating voltage at 20°C	680V (400V working)/707 V (415 working)				
Minimum Discharge Voltage (VDC)	496V (400V working)/516V (415V working)				
Power requested by inverter (at nominal load) KW	50	68	84	105	135
Battery protection (external to UPS)	Wall mounted fuse box on request				
INVERTER					
Inverter Bridge	IGBT (High Frequency Comm.)				
Nominal output power (P.F 0.8) KVA	60	80	100	125	160
Nominal output power (P.F 1.0) kW	48	64	80	100	128
Nominal output current (@400 Vac output)					
P.F 0.8	80	116	145	180	232
P.F 0.1	70	93	115	145	186
Nominal output voltage (selectable)	380-400-415				
Output voltage stability					
Static (Balanced Load) %	±1				
Static (Unbalanced Load) %	±2				
Dynamic (Step Load) %	±5				
Output Voltage recovery time after step load IEC 62040-3	<20 Class 1				
DIMENSIONS (mm)	W = 815/D=825/H=1705				
Weights kg (without battery)	570	600	630	662	720
Static load kg/m ² (without battery)	948	998	1048	1101	1198