



## AVK TITAN UPS SERIES

400-800kVA

### Three-phase Uninterruptible Power Supply (UPS) from 400 to 800kVA

#### TITAN 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 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, programme errors or even hardware damage, thereby posing a serious threat to production processes.

#### Protection around the clock

The AVK Titan UPS range from AVK|SEG (UK) LTD 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 Titan range offers true double-conversion on-line technology, high frequency conversion, digital control input, power factor > 0.8, low noise level, and high efficiency, emergency circuit (EPO) for immediate shutdown; all these are characteristics allowing us to confirm that Titan range systems are an expert solution for any type of power supply requirement you may have - three-phase Uninterruptible Power Supply (UPS) from 400 to 800kVA.

#### Key features:

- On-line double conversion technology
- Pure sine wave
- Input power factor > 0.96
- IGBT power modules
- 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



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## Three-phase Uninterruptible Power Supply (UPS) from 400 to 800kVA SPECIFICATION

POWER (kVA)	400	500	600	800
UPS typology	ON LINE - DOUBLE CONVERSION			
Nominal Output Power @(P.F 0.,8) (kVA)	400	500	600	800
Nominal Output Power @ (P.F0.1) (kVA)	320	400	480	640
Efficiency (AC ÷ AC) %	>94	>94	>94	>94
Heat dissipation @ nominal load (KW)	22.4	28.0	33.6	44
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"			
Audible Noise Level (according EN 50091)	60db	60db	60db	60db
Protection Degree	IP 20			
Design Standard	IEC 62040			
<b>RECTIFIER</b>				
AC-DC Converter type	IGBT			
Nominal Input Voltage (V <sub>ac</sub> )	400 to 415 (selectable) + 10% - 20%			
Input Frequency (Hz)	50 - 60 +/- 5			
Input Power Factor (400 V <sub>ac</sub> )	>0.99	>0.,99	>0.99	>0.99
Input Current THD	<3%	<3%	<3%	<3%
DC Output Voltage Accuracy (%)	+/- 1			
DC Output Voltage Ripple (%rms)	1% rms			
Maximum Recharge @ Nominal Load (A)	60	80	80	120
Maximum Input Current Inc. Recharge (A)	560	700	820	1120
<b>BATTERY</b>				
Type	Sealed Lead Acid Recombination			
Number of cells	306	306	306	306
Floating Voltage @ 25 (°C) (V <sub>dc</sub> )	694	694	694	694
Minimum Discharge Voltage (V <sub>dc</sub> )	520	520	520	520
Input Power To Inverter (at nom. Load) (kW)	336	420	500	672
Battery Protection (external to the UPS)	Automatic Circuit Breaker / Fuse Switch			
<b>INVERTER</b>				
Inverter bridge	IGBT (High Frequency Comm.)			
Nominal Output power @ (P.F 0,8) (kVA)	400	500	600	800
Nominal Output power @ (P.F 1) (kW)	320	400	480	640
Nominal Output Voltage - V <sub>ac</sub>	380 to 415(selectable)			
Output Voltage Stability				
- Static (Balanced Load)	+/- 1%			
- Static (Unbalanced Load)	+/- 2%			
- Output Volt recovery time (after step load) (ms)	<20			
Nominal Output Current - A Cos 0.8	590	720	860	1180
(@400 V <sub>ac</sub> output) Cos 1	460	580	720	920
Overload Capability	125% for 10 min, 150% for 10 sec			
<b>STATIC BY-PASS</b>				
Automatic Static Bypass	Electronic Thyristor Switch			
Nominal Voltage (V <sub>ac</sub> )	380 to 415 (Selectable) +/-10			
Overload Capability				
	- 150 % continuously			
	- 1000 % for 1 cycle			
Manual Bypass (External option)	Electronic Control / No break			
<b>DIMENSIONS (mm)</b>	1990Wx952Dx1920H	2440Wx952Dx2020H	2440Wx952Dx2020H	36000Wx952Dx2020H
Weights (kg) Without Battery	1820	2220	2400	2800

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