



VEGA UPS SYSTEM



From **10 to 80Kva**

- > *Online Double Conversion (VFI)*
- > *Single & Three Phase Designs*
- > *Optional Active Filtering (<4% THDi)*
- > *Parallel Capability for up to 6 units*
- > *Configurable Operating Modes*
- > *Integral Battery Capability*
- > *External Cubicles for Larger Batteries*
- > *Optional Long Autonomy Charger*
- > *Variety of Remote Comms options*

A well-proven UPS incorporating the benefits of on-line double conversion (VFI) technology with the attributes of a high frequency **transformer-less** inverter. This range offers a dramatically reduced weight, an integral battery capability complete with a battery isolator as standard and an optional **long autonomy charger** for larger battery installations.

The small footprint ensures optimum use of comms room space and the reduction in weight enables installation within areas of restricted access or structural limitations.

These units use highly reliable digital control and self-diagnostics with instantaneous self-check upon start up. **Back-feed protection** is a standard feature, so there is no danger to the load or interference to the supply.

Parallel Systems...

For even higher levels of integrity these units offer a '**plug & play - auto configuration**' parallel capability (up to 6 modules) for redundant systems or increased load capacity. Additional UPS modules can be incorporated into the system at a later date as the load increases.

Active Filtering...

The Vega UPS range can be equipped with an integral active filter to provide very low input harmonic distortion (THDi) **less than 4%** and an **input power factor of 0.99** to dramatically reduce running costs and meet more demanding specifications.



Technical Specification Vega

UPS Power (kVA)	10	15	20	30	40	60	80
Dimensions (mm)	1200 h x 450 w x 760 d				1400 h x 500 w x 740 d		
UPS Weight/with Batts (kg)	95/230	100/305	115/320	120/325	180	200	220
Efficiency (AC - AC)	>92% (online) >98% (eco mode)						
Int. Battery Runtime (min)	25	25	16	10	(cubicules / racks available)		
Input Frequency (Hz)	50 or 60						
Audible Noise Level (dB)	<56 (@ 1m)				<62 (@1m)		
Heat Dissipation (kW)	0.64	0.96	1.28	1.92	2.8	4.2	4.8
Ambient Temperature (°C)	0 - 40 (batteries 25°C optimum)						
Inverter Overload (0.8pf)	110% 5 hours, 125% 10 min, 150% 1 min						
Design Standards	EN50091-2, EN62040-1, 2 & 3						

Three Phase Input/Output

UPS Power (kVA/kW)	10/8	15/12	20/16	30/24	40/32	60/48	80/64
Volts (Vac) Input/Output	400 (3ph) (+/- 20%) / 400 (3ph) Nominal						
Input Current (Nom/Max)	13/18	20/26	26/35	38/45	53/66	80/100	106/132
Output Current (0.8pf/1.0pf)	14/11	21.5/17	29/23	43/34	57/45	86/69	115/92
Input Power Factor	>0.95 (0.99 with Active Filter) (@ full load)						
Input Harmonic Distortion	<4% (with Active Filter) (@ full load)						

Three Phase Input/Single Phase Output

UPS Power (kVA/kW)	10/8	15/12	20/16	-	-	-	-
Volts (Vac) Input/Output	400 (3ph) or 230 (1ph) (selectable) (+/- 20%) / 230 Nominal						
Input Current (Nom/Max)	13/18	20/26	26/35	-	-	-	-
Output Current (0.8pf/1.0pf)	42/33	62/50	83/66	-	-	-	-
Input Power Factor	>0.95 (@ full load)						
Input Harmonic Distortion	<4% (with Active Filter) (@ full load)						

Single Phase Input/Output

UPS Power (kVA/kW)	10/8	15/10.5	20/12	-	-	-	-
Volts (Vac) Input/Output	230 (1ph) or 400 (3ph) (selectable) (+/- 20%) / 230 Nominal						
Input Current (Nom/Max)	39/51	59/67	74/78	-	-	-	-
Output Current (0.8pf/1.0pf)	42/33	54/43	62/50	-	-	-	-
Input Power Factor	0.99 (@ full load)						
Input Harmonic Distortion	<7% (@ full load)						

UPS Display

The Vega UPS incorporates a user friendly, multi-language alphanumeric display. Full system operating status, alarm conditions, measurement values can be displayed and are automatically stored providing a 128 event history.

Standard Features

Online Double Conversion using IGBT
Integral Static and Manual Bypass Switch
Integral Battery Circuit Isolator
Integral Battery Capability up to 30kVA

Back feed Protection
Automatic Battery Test Facilities
Temperature Compensated Charger
Comms Card Slot and DB15 Serial for BMS
User friendly, Menu driven display

Options

Integral Active Filter (+5 kgs)
Wall mounted / Floor Standing Maintenance Bypass Switch (**Recommended**)
Parallel Cards for higher capacity systems or N+1 redundancy
Long Autonomy Battery Charger
Dual Input Facility (same source supply)
SNMP Network Card, Relay Contacts, Remote LCD Panel