

ONLINE UPS 3/3 PHASE 10-120 KVA

The VEGA 3000 Series is a high-performance on-line double-conversion (VFI) UPS platform utilizing modern 3-Level IGBT power architecture, delivering superior power quality, maximum system availability, and highly optimized lifecycle operating cost.

The system delivers unity power factor (PF=1) both at input and output, while providing extremely low input harmonic distortion (THDi $\leq 3\%$), significantly reducing installation infrastructure requirements and improving overall power network quality.

With output PF=1, VEGA 3000 ensures ideal protection for advanced IT, data center, industrial automation and power sensitive electronics, delivering extremely low output THDv ($\leq 2\%$) and supporting all load types (inductive, resistive, capacitive or mixed) without derating.

GENERAL SPECIFICATIONS

- Three level IGBT topology
- True online double conversion
- Unity output power factor (1 kW = 1 kVA)
- IGBT PWM Rectifier & Inverter
- Efficiency up to 95 %, Eco-Mode up to 98 %
- Low input current THD ($\leq 3\%$), input PF > 0.99
- Cold start capability
- Smart battery charger
- Temperature compensated three stage charging
- Wide input voltage window
- Frequency converter operation (50/60 Hz)
- Short circuit, overload, surge, lightning protections
- Parallel operation up to 4 units
- 256 Event real time log
- Built-in static & manual bypass
- Intelligent fan speed control for extended service life
- SNMP, RS-485/Modbus, RS-232, dry contacts
- Remote monitoring & management software
- Emergency power off (EPO)
- Generator soft-start compatibility



APPLICATIONS



**3:3 PHASE
3-LEVEL**

ONLINE UPS 3/3 PHASE 10-120 KVA

MODEL	VEGA3010-PF1 VEGA3010-PF2	VEGA3015-PF1 VEGA3015-PF2	VEGA3020-PF1 VEGA3020-PF2	VEGA3030-PF1 VEGA3030-PF2	VEGA3040-PF1 VEGA3040-PF2	VEGA3060-PF1 VEGA3060-PF2	VEGA3080-ML-PF1 VEGA3080-ML-PF2	VEGA3100-ML-PF1 VEGA3100-ML-PF2	VEGA3120-ML-PF1 VEGA3120-ML-PF2	
General										
Nominal Power (kVA)	10	15	20	30	40	60	80	100	120	
Technology	Three Level OnLine Double Conversion									
Waveform	Sinusoidal									
Architecture	Standalone / Parallel (Optional)									
Input										
Input Voltage	380/400/415 Vac 3PH+N+PE									
Input Frequency	45-65 Hz									
Voltage Tolerance (%100 load)	±20%									
Voltage Tolerance (%50 load)	-36%, +20%									
Input Power Factor	≥0.99									
Input Current THD	≤3%									
Output										
Output Voltage	380/400/415 Vac 3PH+N+PE ± 1%									
Efficiency (AC-AC)	Up to 96% (@ 50% Load), Up to 95% (@ 100 %Load)									
Ecomode Efficiency	Up to 98% (Optional)									
Nominal Output Frequency	50/60Hz +0.01 Free Run (Adjustable) (Optional)									
Crest Factor	3:1									
Output Power Factor	1 (PF1 Model) / 0.9 (PF2 Model)									
Output Voltage THD	<2% Linear Load & 5% Non-Linear Load									
Bypass										
Bypass	Built in Automatic & Maintenance Bypass									
Overload	150% load for 1 Minutes									
Voltage Tolerance	± 10%									
Transfer Time	0 ms									
Battery & Charger										
Battery Types	VRLA-AGM (GEL / NiCd / Li-ion Optioant)									
Battery Test	Automatic or Manual									
Charge Time	<6h-8h									
Charger Capacity PF1 Model (Max)	1 - 13A Adjustable									
Charger Capacity PF2 Model (Max)	1-4A Adjustable (1-13A) Optional					1 - 13A Adjustable				
Higher Charger Card Option	Available									
Quantity (With Internal 12V)	(PF1& PF2) 20/32 Pcs 7/9Ah	(PF1& PF2) 32 Pcs 7/9Ah	2x30 Pcs 7/9Ah (PF1) 32 Pcs 7/9Ah (PF2)	(PF1& PF2) 2x30 Pcs 7/9Ah	2x30 Pcs 18Ah (PF1) 2x30 Pcs 7/9Ah (PF2)	N/A (PF1) 2x30 Pcs 18Ah (PF2)	N/A			
Quantity (External Cabinet With 4A Charger)	V1: 30-40 pcs (Default 30 pcs) V2: 40-46 pcs (Default 40 pcs)					N/A				
Quantity (External Cabinet With 13A Charger)	30-46 Pcs (Default 30 Pcs - Adjustable from panel)					40-46 Pcs (Default 40 Pcs - Adjustable from panel)				
Communication & Accessories										
Display Type	Graphical LCD, Status LEDs									
Communication Ports (Optionals)	RS485, Modbus , USB, SNMP, GSM Modem, Relay Contacts, Input Contacts, Gensets									
Battery Temperature Sensor Input	Available									
Emergency Power Off (EPO)	Available									
Accessories (Optionals)	Galvanic Isolation Transformer, Remote Monitoring Panel									
Environmental										
Operating Temperature	0°C - 40°C									
Storage Temperature	-15°C+ 55°C									
Relative Humidity	< 95% non condensing									
Noise (@ 1 Meter)	<55 dBA		<58 dBA				<60 dBA			
Altitude	< 1500m									
Protection Class	IP 20 (Higher Ratings are Optional)									
Physical										
Dimensions H x W x D (mm)	855 x 305 x 735 (PF1&PF2)		1078 x 325 x 895 (PF1 30kVa) 855 x 305 x 735 (PF1&PF2 20kVa & PF2 30kVa)		1330 x 420 x 1330 (PF1 60kVa) 1078 x 325 x 895 (PF2 40kVa) 1352 x 436 x 975 (PF1 40kVa & PF2 60 kVa)		1257 x 432 x 918 PF1&PF2			
Net Weight (Kg)	48	51	65 PF1 / 54 PF2	71 PF1 / 65 PF2	90 PF1 / 71 PF2	115 PF1 / 95 PF2	125 PF1 / 115 PF2	135 PF1 / 125 PF2	140 PF1 / 130 PF2	
Compliance										
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)									