

## ONLINE UPS 3/1 PHASE 10-40 KVA

VEGA 2000 SERIES UPS systems are developed with the latest power conversion technologies and high-quality components to ensure maximum protection for critical loads, optimized energy efficiency, and zero interference with connected systems.

This range covers 10–40 kVA single-phase input/single-phase output models based on online double conversion topology (VFI – Voltage and Frequency Independent) with three-level IGBT inverter architecture for superior efficiency and reliability.

In terms of performance and technology, the VEGA 2000 Series represents one of the most advanced UPS solutions in its class — offering up to 95% efficiency at half load, unity power factor (1.0) output, and reduced system losses for improved overall energy utilization.

### GENERAL SPECIFICATIONS

- Three-Level IGBT Topology
- Unity Output Power Factor (1 kW = 1 kVA)
- IGBT PWM Rectifier & Inverter
- AC-AC Efficiency up to 95 %, Eco-Mode up to 98 %
- Low Input Current THD ( $\leq 5\%$ ) and input PF  $> 0.99$
- Cold-Start Capability
- Smart Battery Charger
- Temperature Compensated Three-Stage Charging
- Wide Input Voltage Range (-36 %)
- Frequency Converter Operation (50/60 Hz)
- Short Circuit, Overload, Surge, Lightning Protection
- Parallel Operation up to 4 Units
- 256 Event Real Time Log
- Built-in Static & Manual Bypass
- Intelligent Fan-Speed Control
- SNMP, RS-485/Modbus, RS-232, Dry Contacts
- Remote Monitoring & Management Software
- Emergency Power Off (EPO)
- Generator Soft Start Compatibility



**3:1 PHASE**  
**3-LEVEL**

### APPLICATIONS



INDUSTRY    TRANSPORTATION    MEDICAL    DATACENTER    EMERGENCY

## ONLINE UPS 3/1 PHASE 10-40 KVA

MODEL	VEGA2310-PF1 VEGA2310-PF2 VEGA2310-PF3	VEGA2315-PF1 VEGA2315-PF2 VEGA2315-PF3	VEGA2320-PF1 VEGA2320-PF2 VEGA2320-PF3	VEGA2330-PF1 VEGA2330-PF2 VEGA2330-PF3	VEGA2340-PF1 VEGA2340-PF2 VEGA2340-PF3
<b>General</b>					
Nominal Power (kVA)	10	15	20	30	40
Technology	Three Level OnLine Double Conversion				
Waveform	Sinusoidal				
Architecture	Standalone / Parallel (Optional)				
<b>Input</b>					
Input Voltage	380/400/415 Vac 3PH+N+PE				
Input Frequency	45-65 Hz				
Voltage Tolerance (%100 load)	±20%				
Voltage Tolerance (%50 load)	-40%, +20%				
Input Power Factor	≥0,99				
Input Current THD	≤5%				
<b>Output</b>					
Output Voltage	220/230/240 Vac 1 Ph+N+PE (Adjustable) ±1%				
Output Frequency	45-65 Hz ± 0,01%				
Efficiency (AC-AC)	Up to 95% (@ 50% Load), Up to 94% (@ 100 %Load)				
Ecomode Efficiency	Up to 98% (Optional)				
Nominal Output Frequency	50/60Hz +0,01 Free Run (Adjustable)				
Crest Factor	3:1				
Output Power Factor	1 (PF1 Model) / 0,9 (PF2 Model) / 0,8 (PF3 model)				
Output Voltage THD	<2% Linear Load & 5% Non-Linear Load				
Overload	150% for 1 Minutes				
Bypass	Built in Automatic and Maintenance Bypass				
Voltage Tolerance	± 10%				
<b>Battery &amp; Charger</b>					
Battery Types	VRLA-AGM (GEL / NiCd / Li-ion Optioanl)				
Battery Test	Automatic or Manual				
Charge Time	<6h-8h				
Charge Current	1A		4A		
Charger Capacity (With Caharger Option)	4A / 13A				
Quantity (With Internal 12V 7/9Ah)	16/28 Pcs (PF1)	28 Pcs	28 Pcs (PF3)	2x30 Pcs (PF3)	-
Quantity (External Cabinet With 4A Charger)	A2: 30-40 pcs (Default 30 pcs) A3: 40-46 pcs (Default 40 pcs)				
Quantity (External Cabinet With 13A Charger)	30-46 Pcs (Default 30 Pcs - Adjustable)				
<b>Communication &amp; Accessories</b>					
Display Type	Graphical LCD, Status LEDS				
Communication Ports (Optionals)	RS485, Modbus , USB, SNMP, GSM Modem, Relay Contacts, Input Contacts, Gensets				
Accessories (Optionals)	Galvanic Isolation Transformer, Remote Monitoring Panel				
<b>Enviromental</b>					
Operating Temperature	0°C - 40°C				
Storage Temperature	-15°C+ 55°C				
Relative Humidity	< 95% non condensing				
Noise (@ 1 Meter)	<55 dBA				
Altitude	< 1500m				
Protection Class	IP 20 (Higher Ratings are Optional)				
<b>Physical</b>					
Dimensions H x W x D (mm)	661 x 257 x 580 735 x 256 x 673 (PF1)	762 x 257 x 694	762 x 257 x 694 991 x 302 x 862 (PF1)	991 x 302x 862	1078 x 895 x 325 1352 x 975 x 436 (PF1)
Net Weight (Kg)	38 / 40 PF1 & PF2	40	50 / 65 PF1 & PF2	65 / 71 PF1 & PF2	71/ 90 PF1 & PF2
<b>Compliance</b>					
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)				