ONLINE UPS 1/1 – 3/1 PHASE 6-20 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 6–20 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 (≤ 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

1:1 PHASE
3:1 PHASE
3-LEVEL

APPLICATIONS

ONLINE UPS 1/1 – 3/1 PHASE 6-20 KVA

MODEL	VEGA2006-PF1R VEGA2006-PF2R	VEGA2010-PF1R VEGA2010-PF2R	VEGA2015-PF1R VEGA2015-PF2R	VEGA2020-PF3R	VEGA2310-PF1R VEGA2310-PF2R	VEGA2315-PF1R VEGA2315-PF2R	VEGA2320-PF1R VEGA2320-PF2R
General							
Nominal Power (kVA)	6	10	15	20	10	15	20
Technology	Three Level OnLine Double Conversion						
Waveform	Sinusoidal						
Architecture	Standalone / Parallel (Optional)						
Input							
Input Voltage	220/230/240 Vac 1PH+N+PE				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%						
Output							
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%						
Battery & Charger							
Battery Types	VRLA-AGM (GEL / NiCd / Li-ion Optioanl)						
Battery Test	Automatic or Manual						
Charge Time	<6h-8h						
Charge Current	1A		4A		1A	4A	
Charger Capacity (With Caharger Option)	4A / 13A						
Quantity (With Internal 12V 7/9Ah)	16 / 20 (PF1) Pcs	20 Pcs	30 / 40 Pcs		20 Pcs	30 / 40 Pcs	
Quantity (External Cabinet With 4A Charger)	30-40 Pcs (Default 40 Pcs)						
Quantity (External Cabinet With 13A Charger)	30-40 Pcs (Default 40 Pcs - Adjustable)						
Communication & Accessories							
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						
Enviromental							
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)						
Physical							
Dimensions H x W x D (mm)	151 (3U) x 438 x 579 (19")						
Net Weight (Kg)	25	30	35	40	32	36	40
Compliance							
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (Performance)						