VEGA 3000-MOD SERIES

EMRT
Reliable Power Solutions

MODULAR ONLINE UPS 3/3 PHASE 50-600 KVA

The VEGA 3000-MOD Series is a modular UPS platform designed with the latest generation power components and advanced 3-Level architecture. Thanks to its hot-swappable modular design, the system can be configured flexibly from 50 kVA up to 500 kVA within a single cabinet. Up to three cabinets can also be paralleled, enabling total system capacity expansion up to 1500 kVA.

VEGA 3000-MOD delivers a highly functional, safe, and easy-to-deploy solution optimized for modern power infrastructures. Leveraging state-of-the-art power conversion technology, it ensures reliable operation, simplified serviceability, and scalable protection aligned with evolving operational requirements.

GENERAL SPECIFICATIONS

- 3-Level IGBT Technology
- Online Double Conversion
- IGBT PWM Rectifier & Inverter
- Multiprocessor Digital Control
- Up to 96% high efficiency
- Eco Mode Operation – efficiency up to 98%
- Low Input Current THD (≤3%)
- High Input Power Factor (≥0.99)
- Low Output Voltage THD (≤2%)
- Fast Dynamic Load Transient Response (≤2ms)
- Cold Start Capability
- Parallel Configurable – 3 units up to 1500kVA
- 256 Real-Time Event Log
- Dual Input Capability
- Static & Manual Bypass System built-in
- Remote Monitoring & Management Software support
- Excellent Generator Compatibility
- Programmable Dry Contacts
- 10.4” Touch Color LCD Display with graphical UI
- Independent LCD for each modular power module
- DC/DC Charger / Booster suppors flexible number of batteries
- Wide Input Voltage Operation Range (up to -36%)
- 4U – 50kVA Power Module
- Short circuit, overload, surge, lightning protection

MODULAR 3:3 PHASE 3-LEVEL

APPLICATIONS

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MODEL	VEGA3100-MOD	VEGA3200-MOD	VEGA3300-MOD	VEGA3500-MOD	VEGA3600-MOD
General					
System Capacity (kVA)	100	200	300	500	600
Power Module Capacity	50 kVa / 50 kW				
Input					
Dual Input	Standard		Optional	Standard	
Input voltage	380/400/415 Vac 3PH+N+PE				
Rated Frequency	50Hz / 60Hz				
Frequency Range	40Hz / 70Hz				
Input Power Factor	≥0,99				
Input Current THD	≤3% @ 100% Linear Load				
Output					
Output Voltage	380/400/415 Vac (Line-Line)				
Voltage Regulation	± 1% Balanced Load ± 1.5% Unbalanced Load				
Rated Frequency	50Hz / 60Hz				
Output Power Factor	1.0				
Output Voltage THD	<1.0 Linear Load, <5.5% Non-Linear Load				
Crest Factor	3:1				
Inverter Overload	110% 1 hour, 125% 10 min, 150% 1 min, >150% 200ms				
Bypass					
Rated Voltage	380/400/415 Vac (Line-Line)				
Rated Frequency	50Hz / 60Hz				
Inpıt Voltage Range	-40%, +25% (Adjustable)				
Frequency Range	± 1Hz, ± 3Hz, ± 5Hz (Adjustable)				
Over Load	125% Long Term Operation < 130% 10 Minutes < 150% 1 Minutes > 150% 300 ms		110% Long Term Operation < 130% 10 Minutes < 150% 1 Minutes > 150% 1 ms		110% Long Term Operation 110% - 125% 10 Minutes 125% - 150% 1 Minutes > 150% 1 s
Battery					
Voltage	± 240 VDC				
Quantity	40 Pcs (Adjustable 32 -44)				
Voltage Precision	1%				
Charge Power	up to 20% Output Active Power				
Battery Cold Satart	Optional		Standard		
System					
Efficiency	AC Mode 96%, Eco Mode 99%				
Display	10.4" Touch Screen, LED, Keyboard				
Communication Interface	RS232, RS485, Programmable Dry Contacts, USB				
Optional	SNMP, Parallel Kit, SPD, LBS, Dust Filter				
Accessories (Optional)	Galvanic Isolation Transformer, Remote Monitoring Panel				
Enviromental					
Operating Temperature	0°C - 40°C				
Storage Temperature	-40°C+ 70°C				
Relative Humidity	< 95% non condensing				
Noise (@ 1 Meter)	<62 dBA				<65 dBA
Altitude	< 1000m, Power Derate 1% for every 100m rise between 1000-2000m				
Protection Class	IP 20 (Higher Ratings are Optional)				
Physical					
Dimensions Cabinet H x W x D (mm)	1150 x 600 x 980	1600 x 650 x 960	2000 x 650 x 1095	2000 x 1300 x 1100	
Dimensions Power Module H x W x D (mm)	178 x 510 x 700				
Net Weight Cabinet (Kg)	120	170	220	450	1040
Net Weight Module (Kg)	45				