

VALENCIA PLUS SERIES



Online UPS Low frequency 10KVA to 120KVA (Three Phase in and Three phase out)

VALENCIA PLUS Series Energy efficiency with superior electrical protection

Low Frequency 3/3 UPS series 10-120KVA is an online Transformer-based UPS with three phases in both input and output and an output power factor of 0.9. This UPS Features an isolation transformer on the output side to provide galvanic isolation for the load connected to a 6-pulse rectifier which can reduce the harmonic currents and increase the power factor considerably by reducing the amount of reactive power consumed.

VALENCIA PLUS series has been conceived to offer the best guarantees in meeting customers' requirements and needs and has been designed with full respect for the most demanding environmental regulations.

VALENCIA PLUS series features power range from 10 to 120 KVA in a very compact format for easier installation. Plus, the reliability of the system can be increased with the installation of several redundant units or it can grow in parallel based on the needs of the installation.

Applications

Guaranteed energy for all environments

Data centers:

ensure the functionality of environments and prevent losses caused by net failures.

Financial services:

Maintains online operability of financial transactions and operations.

Telecommunications:

Prevents supply failures that can suspend communication between subscribers.

IT-Networks:

Prevent costs due to service interruptions or loss of information.

Industrial processes:

protect productivity in electrically complicated environments.

Infrastructure:

Safeguards the instruments/equipment and ensures the proper management of the systems.

Osmium Tech Co., Ltd.

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General Features

- On-line, double conversion, DSP control.
- Double input connection to increase the availability.
 - Input power factor >0.99 .
- Total harmonic distortion of input current (THDi) $< 3\%$.
 - Efficiency between 95% and 96%.
 - Zig-zag transformer on the output inverter.
- Parallel for redundancy or increase the power capacity.
 - Compatible with generating sets.
 - Inverter manual operation/Smart Eco-mode.
 - Prepared to bear computer loads with FP <0.9 .
 - Batt-Watch battery monitoring and care.
- Calculates available backup time in a long-term failure.
 - Compact format to save on installation space.
 - Easy installation, operation and maintenance.
 - A wide range of control and monitoring options.
 - Large variety of options available.
 - SLC Greenergy solution.

Technical support and service

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|---|---|
|  Pre and post-sales advice. |  Maintenance contracts. |
|  Start-up. |  Remote maintenance contracts. |
|  Telephone technical support. |  Training courses. |
|  Preventative/corrective intervention. | |

Technical Specifications

MODEL		V-PLUS10	V-PLUS20	V-PLUS30	V-PLUS40	V-PLUS60	V-PLUS80	V-PLUS100	V-PLUS120
RATED POWER		10KVA / 9KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW
TECHNOLOGY		On-line double conversion, DSP control							
INPUT	Rated voltage	Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N+PE)							
	Voltage range	+15% / -20% (@3 x 400V)							
	Rated frequency	50 / 60 Hz (45-65Hz)							
	THDi	<3%							
	Power factor	>0.99							
OUTPUT	Rated voltage	Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N+PE)							
	Voltage accuracy	± 1% steady state; ± 5% Dynamic state (100% unbalanced) ,20 ms recovery time							
	THDv (linear load)	≤ 2%						≤ 1%	
	Frequency	50 / 60 Hz							
	On-line performance	91%	92%				92.5%		93%
	Admissible performance	125% for 10 min. / 150% for 1 min. / 200% for 10 s / >200% for 100ms							
MANUAL BYPASS	Type	Without interruption							
STATIC BYPASS	Type & activation criteria	Solid state, control by microprocessor							
	Voltage (V)	Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N+PE)							
	Transfer time	Nil							
	Transfer to bypass	Immediate for overloads for over 150%							
	Retransfer	Automatic after alarm disappearance							
	Input	Independence							
	Frequency	50 / 60 Hz							
	Admissible overloads	1000% for 1 cycle							
BATTERY	Battery type	Lead acid, sealed, maintenance free							
	Rated voltage	384 VDC							
	Charging voltage regulation	Batt-Watch							
	Battery test	Manual + Automatic							
COMMUNICATION	Ports	RS-232, USB, Emergency Power Off (EPO), Port for monitoring the system							
	Backlit LCD display	LCD block diagram							
GENERAL	Operating temperature	0°C ~ +40°C							
	Relative humidity	Up to 95%, non-condensing							
	Maximum operating altitude	< 1500 m							
	Acoustic noise at 1 meter	< 60 dB							
STANDARD	Safety	EN-IEC 62040-1							
	Electromagnetic compatibility	EN-62040-2							
	Operation	VFI-SS-11 (EN-62040-3)							
	Corporate certification	ISO 9001, ISO 14001, ISO 45001							
PHYSICAL	Dimensions (L x W x H) mm	350 x 650 x 1050			430 x 830 x 1100		720 x 690 x 1400		890 x 790 x 1600
	Weight (kg)	130	145	186	225	300	405	500	600

*information subject to change without prior notice

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