DIM UPS SERIES

RANGE: 100 KVA TO 1000 KVA (3:3)

TRANSFORMER FREE UPS SYSTEM
Industrial Modular Architecture

DATA CENTER
INDUSTRY
TRANSPORT
EMERGENCY
MEDICAL



LI READY

FEATURES

- UPS output PF=1, THDi <3%
- AC – AC Efficiency up to 97%
- Mains to Battery seamless switching
- ECO MODE efficiency up to 99%
- iECO MODE with Ultra-high efficiency up to 99.5%
- Provides reactive power compensation
- Harmonic suppression to eliminate load interference with the power grid
- Battery and mains can operate simultaneously, supporting the slow start of the generator

The POM POWER's transformer-free UPS technology has been developed over two decades, eliminating the need for transformers in power line frequency magnetics and advancing towards high-power, high reliability solutions. These UPS systems feature cutting-edge input capabilities that reduce harmonics and enhance power factor, thereby lowering costs and footprint. Available in capacities from 100 KVA to 1000 KVA, the modular architecture-based DIM Series boosts efficiency and ensures high reliability in industrial settings by allowing modules to operate redundantly, so a single failure does not compromise overall system performance. The DIM Series operates with the industry's best wide DC Bus from 32 to 44 batteries.

TECHNICAL SPECIFICATIONS

Three Phase Input - Three Phase Output

MODEL	DIM100	DIM120	DIM160	DIM200	DIM250	DIM300	DIM400	DIM500	DIM600	DIM800	DIM1000
CAPACITY	100KVA	120KVA	160KVA	200KVA	250KVA	300 KVA	400KVA	500 KVA	600 KVA	800 KVA	1000 KVA
AC INPUT											
Input Voltage	380/400/415 V AC							380/400/415 V AC			
Voltage Range	320 V- 480 V							320 V- 480 V			
Input Frequency	50 Hz ± 10%							50 Hz ± 10%			
THDi	<3%							<3%			
Input PF	≥ 0.99							≥ 0.99			
DC INPUT											
Rated Voltage	± 240 VDC							± 240 VDC			
Voltage Scope	384V- 528 V							384V- 528 V			
Number Of Batteries	32- 44 Pcs							32- 44 Pcs			
Type Of Batteries	VRLA, LI-ION, AGM							VRLA, LI-ION, AGM			
AC OUTPUT											
Output Voltage	380 V/400 V/415 V							380 V/400 V/415 V			
Output PF	UNITY @30°C							UNITY @30°C			
Frequency	50 Hz +/- 0.05 Hz							50 Hz +/- 0.05 Hz			
Recovery Time	20 ms							20 ms			
Transfer Time	0 ms							0 ms			
Crest Factor	3:1							3:1			
THDv (%)	2% (LINEAR LOAD) 4% (NON LINEAR LOAD)										
Overload	115% 60 Min/125% 10 Min /150% 1 Min @ 0.8 PF										
Efficiency	Upto 97.5%							Upto 97.5%			
Parallel Connections	Upto 6							Upto 6			
OTHER PARAMETERS											
EPO	STANDARD							STANDARD			
Operation Mode	ONLINE/IECO							ONLINE/IECO			
Communication	RS 232/ RS485, CAN, USB, DRY CONTACT, SD, SNMP, MODBUS										
Storage temperature	-25° c to 60°c										
Operation temperature	0° c to 50°c										
Altitude	≥ 5000 M, ABOVE 1000 METER DERATING										
Relative Humidity	0 - 95% (non-condensing)										
Ip Grade	IP 20/ 21										
Cooling	FORCED AIR COOLING										
Noise	≤65 - 70 DB										
Dimension (W*D*H) mm	600*950*1600		600*950*2000			800*950*2000		1200*1000*2000		1800*1000*2000	
Net Weight (Kg)	300	320	360	380	410	430	450	500	550	570	600