

# Eaton 93PM G2 UPS

50-360 kVA



## Highest availability, at the lowest total cost of ownership

### Lowest Total Cost of Ownership (TCO)

- Highest efficiency in its power range with up to 97% efficiency in double conversion mode and >99 % efficiency in Energy Saver System mode
- High efficiency even when UPS load levels are low, optimized by Variable Module Management System (VMMS)
- Maximal power and energy density ensures a compact footprint
- EnergyAware ready – Revenue from a necessary investment

### Ultimate resiliency

- HotSync® patented load-sharing technology eliminates risk of single point of failure
- Equipped with ultra-rapid fuses in the Static Switch – ensuring safety in all scenarios
- Equipped with a backfeed contactor – no need for additional installments

### Highly scalable and easy deployment

- Modularity - Hot swappable power modules can be replaced or added while other modules continue protecting the load
- Thermal management allows for flexible installation against the wall, in rows and in hot/cold aisle configurations

### Easy management

- Wide range of connectivity options (Web/SNMP, Modbus/Jbus, relay contacts)
- Intelligent Power® software integrates with leading virtualization management systems for monitoring and managing
- The intuitive touchscreen LCD user interface and visual data logging provides clear information on the UPS status
- Cyber-secure (third party certified) connectivity

### Key applications

- Colocation data centers
- Medium and large data centers
- Finance and banking critical infrastructure
- Commercial buildings and industrial complexes
- Healthcare
- Telecommunications installations
- Process control equipment



Powering Business Worldwide

# Eaton 93PM G2 UPS 50-360 kVA

## Technical specifications

General	
UPS output power rating	50-300 kW (PF 1.0) 60-360 kVA (PF 0.9)
Power module power rating	50 kW (PF 1.0) 60 kVA (PF 0.9)
Efficiency in double conversion mode	up to 97%
Efficiency in Energy Saver System (ESS)	> 99% <sup>1</sup>
Inverter/rectifier topology	Transformer-free IGBT with PWM
Paralleling capability	Up to 4 units
UPS topology	Online / Double conversion
UPS dimensions (width x depth, height)	800 x 990 x 1987 mm
UPS Degree of protection	IP 20
Altitude (max)	1000 m without derating (max 2000 m)
Input	
Input wiring	3ph + N + PE
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V
Rated input frequency	50 or 60 Hz, user configurable
Frequency tolerance	40 to 72 Hz
Input Power Factor	0.99
Input ITHD	< 2,5%
Soft start capability	Yes
Internal backfeed protection	Yes
Battery	
Battery type	VRLA
Charging method	ABM technology or Float
Temperature compensation	Optional
Battery nominal voltage (VRLA)	384-528 V (32-44 blocks)
Battery start capability	Yes
Alternative backup power technologies	Li-ion batteries, NiCd batteries, Wet cell batteries, Supercapacitors

1. IEC 62040-3 Class 3 output

Output	50-300 kW (PF 1.0)	60-360 kVA 60-360 kVA (PF 0.9)
Output wiring	3ph + N + PE	
Nominal voltage rating (configurable)	220/380, 230/400, 240/415 V 50/60 Hz	
Output UTHD	<1% (100% linear load) < 3% (reference non-linear load)	
Overload on inverter	60 min 110%	10 min 110%
	10 min 125%	1 min 125%
	60 s 150%	10 s 150%
Overload when bypass available	Continuous <125% / <115%	

**Note:** Bypass fuses may limit the overload capability!

## Options and accessories

External cabinets with VRLA batteries, Li-ion batteries or Supercapacitors  
 Top air exhaust kit (front to top airflow)  
 Integrated Maintenance bypass switch (200 kW frame)  
 Sync control for synchronizing the output of two separate UPS systems  
 MiniSlot connectivity (Network/SNMP, Modbus/Jbus, Relay)  
 Power Conditioner mode  
 Frequency Converter mode

## Communications

MiniSlot	4 communication bays
Serial ports	Built-in host and device USB
Relay inputs/outputs	5 relay inputs and dedicated EPO 1 relay output
Software	Eaton Intelligent Power Manager Eaton Intelligent Power Protector

## Compliance with standards

Safety (CB certified)	IEC 62040-1
EMC	IEC 62040-2
Performance	IEC 62040-3
RoHS	EU directive 2015/863/EU
WEEE	EU directive 2012/19/EU

Due to continuous product improvement programmes, specifications are subject to change without notice.

## Eaton 93PM 50-300 kW (PF 1.0) range

Model	Rating	Power module qty	Dimensions	Weight
93PM-G2-50(200)	50 kW	1	800 x 990 x 1987 mm	361 kg
93PM-G2-100(200)	100 kW	2	800 x 990 x 1987 mm	404 kg
93PM-G2-150(200)	150 kW	3	800 x 990 x 1987 mm	447 kg
93PM-G2-200(200)	200 kW	4	800 x 990 x 1987 mm	490 kg
93PM-G2-250(300)	250 kW	5	800 x 990 x 1987 mm	533 kg
93PM-G2-300(300)	300 kW	6	800 x 990 x 1987 mm	576 kg

## Eaton 93PM 60-360 kVA (PF 0.9) range

Model	Rating	Power module qty	Dimensions	Weight
93PM-G2-60(240)	60 kVA	1	800 x 990 x 1987 mm	361 kg
93PM-G2-120(240)	120 kVA	2	800 x 990 x 1987 mm	404 kg
93PM-G2-180(240)	180 kVA	3	800 x 990 x 1987 mm	447 kg
93PM-G2-240(240)	240 kVA	4	800 x 990 x 1987 mm	490 kg
93PM-G2-300(360)	300 kVA	5	800 x 990 x 1987 mm	533 kg
93PM-G2-360(360)	360 kVA	6	800 x 990 x 1987 mm	576 kg