



ИБП Eaton 91PS-10(10)-0-MBS (91PS10MBS) - Eaton 91PS и 93PS 8-10 кВт - Брошюра

Постоянная ссылка на страницу: <https://eaton-power.ru/catalog/eaton-91ps/eaton-91ps-10-10-0-mbs/>

Eaton 91PS and 93PS UPS

8-10 kW

1:1

3:1

3:3



Key applications

- IT applications:
 - Server rooms
 - Localised Data centres
- Mission critical applications:
 - Manufacturing/Industrial facilities
 - Transportation
 - Retail Buildings
 - Healthcare
 - Telecommunication
 - Government

Lowest total cost of ownership (TCO)

- Highest efficiency in its power range with above 96% efficiency in double conversion mode and up to 99% efficiency in Energy Saver System mode
- Scalable by paralleling up to 4 units
- Smallest footprint on the market, footprint only 0.25 m²
- Unity power factor (1.0), providing more real power than many of its rivals

Maximum availability

- HotSync® patented load-sharing technology enables parallel operation of units without communication or loadshare signals. Eliminating the communication link eliminates the risk of single point of failure
- Equipped with ultra-rapid fuses in the Static Switch
 - ensuring safety in all scenarios
- Equipped with backfeed protection
 - no need for additional installments
- Advanced Battery Management – Intelligent battery charging to keep your batteries safe and in good condition
- Eaton 91PS/93PS and Eaton's Intelligent Power Manager® software suite takes the resiliency of the system to the next level by bridging the electrical and IT infrastructure



Powering Business Worldwide

Technical specification

General

| Model rating (1.0 p.f.) | Eaton 91PS | Eaton 93PS |
|---|--|--|
| Model catalogue reference | 91PS-8(10)-0-MBS 91PS-8(10)-1x9Ah-MBS 91PS-10(10)-0-MBS 91PS-10(10)-1x9Ah-MBS | 93PS-8(10)-0-MBS or 93PS-8(10)-1x9Ah-MBS 93PS-10(10)-0-MBS or 93PS-10(10)-1x9Ah-MBS |
| Number of internal batteries | 0 or 1 x 32 blocks | |
| Upgradability | Yes, to 10 kW | |
| External paralleling | Up to 4 units with HotSync technology | |
| UPS topology | Double conversion, 3-level IGBT converters | |
| Efficiency in double-conversion mode | 96% | |
| Efficiency in Energy Saver System (ESS) mode | Up to 99% | |
| UPS dimensions (width x depth x height) | 335 x 750 x 950 mm | |
| UPS Degree of protection | IP 20 | |
| Acoustic noise at 1 m, in 25 °C ambient temperature | < 54 dBA in double conversion < 47 dBA in ESS | |
| Maximum service altitude | 1000 m (3300 ft) above sea level at 40 °C Maximum 2000 m (6600 ft) with 1 % derating per each add. 100 m | |

Input

| Model rating (1.0 p.f.) | Eaton 91PS | Eaton 93PS |
|---|--|---------------------------------|
| Input wiring | 3:1 3 phases + neutral 1:1 1 phase + neutral | 3 phases + neutral |
| Rated input r.m.s. current: | 3:1 220/380 V; 230/400 V; 240/415 V 1:1 220 V; 230 V; 240 V | 220/380 V; 230/400 V; 240/415 V |
| Input ITHD: Resistive load Non-linear load | 8 kW < 4.0% and 10 kW < 3.5% 8 kW < 6.5% and 10 kW < 5.5% | |
| Voltage tolerance: Rectifier input Bypass input | 187 to 276 V rated voltage -15% / +10% | |
| Rated input frequency | 50 or 60 Hz, user configurable | |
| Frequency tolerance | 40 to 72 Hz | |
| Input power factor | 0.99 | |
| Soft start capability | Yes | |
| Internal Back feed protection | Yes, for rectifier and bypass lines | |

Output

| Model rating (1.0 p.f.) | Eaton 91PS | Eaton 93PS |
|--|--|-------------------------------------|
| Output wiring | 1 phase + neutral | 3 phases + neutral |
| Rated output voltage | 220 V; 230 V; 240 V | 220/380 V; 230/400 V; 240/415 V, |
| Output UTHD: 100% linear load 100% non-linear load | < 1.5% < 2.5% | |
| Rated output power | 8 kW / 8 kVA or 10 kW / 10 kVA | |
| Overload capability: On inverter | 10 min 102-110% load 60 sec 111-125% load 10 sec 126-150% load 300 ms > 150 % | |
| On bypass | Continuous < 125% load 20 ms 1000% load | |
| Load power factor: Rated Permitted range | 1.0 0.8 lagging to 0.8 leading | |

1. IEC 62040-3 Class 3 output

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

Battery

| Models with internal batteries | |
|---|--|
| Battery technology | 12 V, VRLA |
| Nominal Ah capacity (C10) | 9Ah |
| Battery design life | 5 years |
| Battery quantity: Internal External | 32 blocks, 192 cells per battery string 28-40 blocks per string |
| Battery voltage: Internal External | 384 V 336 V – 480 V |
| Charging method | ABM technology or Float |
| Charge current limit | Default 5A, configurable Maximum 12.5A |
| Battery start option | Yes |
| Alternative energy source technologies | Wet cell batteries NiCd batteries Lithium-ion batteries Supercapacitors |

Communication

| | |
|-----------------------------|--|
| MiniSlots | 2 communication bays |
| Network/SNMP interface | Yes, standard |
| Standard connectivity ports | Mini-slot ports for optional cards, Device USB and Host USB, RS-232 service port, relay output, 5 building alarm inputs and a dedicated EPO, Web and SNMP card |

Compliance with standards

| | |
|-----------------------|-------------------------|
| Safety (CB certified) | IEC 62040-1 |
| EMC | IEC 62040-2 |
| Performance | IEC 62040-3 |
| RoHS | EU directive 2011/65/EU |
| WEEE | EU directive 2012/19/EU |