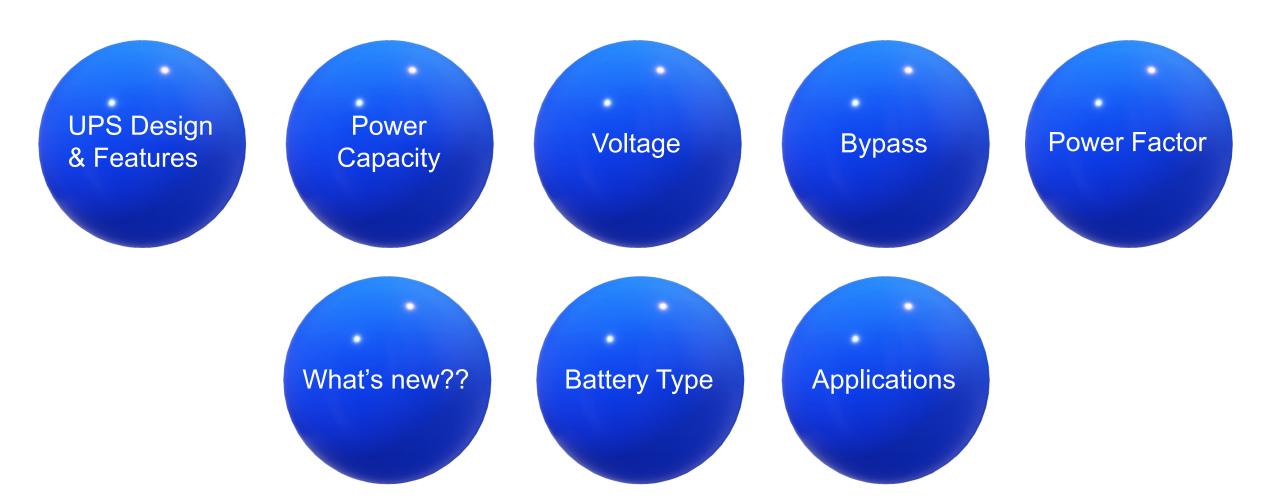




Agenda





What is 3-Phase power?

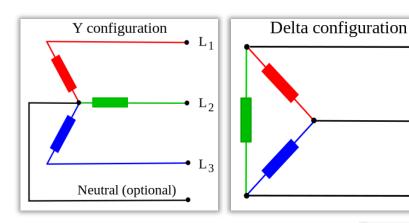
Three-phase electric power is a common type of alternating current (AC) used in electricity generation, transmission, and distribution. It is a type of polyphase system employing three wires (or four including an optional neutral return wire)

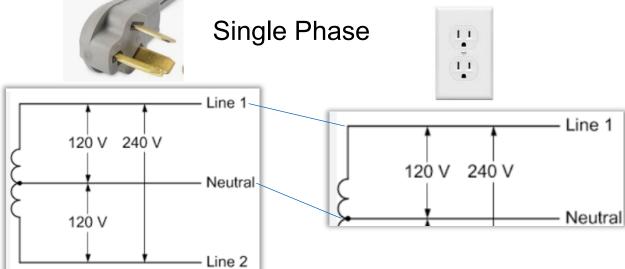
 L_2

 L_3



Three Phase







More Power
Capacity
compared to
single phase

More efficient power transmission



93PM – Design



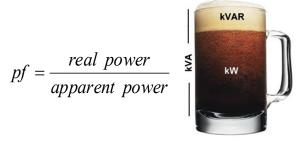
Modular "Pay as you grow"

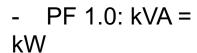




93PM - Power (PF 1.0)



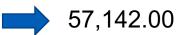




- Hardwired in/out
- Modular
- Firmware capacity upgrade

20kW





400kW

Capacity Options



93PM – Voltage



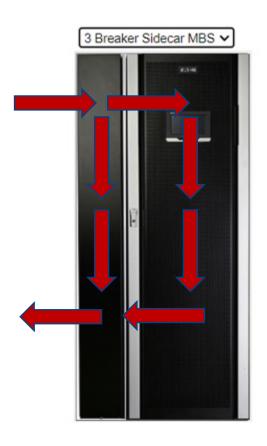
Voltage Options

120/208VAC 127/220VAC 230/400VAC 277/480VAC 480VAC

480VAC to 120/208VAC



93PM – Bypass Options









93PM - Battery Cabinet Options

Eaton three-phase VRLA battery solutions



- a. 3-5 Year life
- b. Sealed lead acid
- c. Upfront cost lower



Integrated battery cabinet - small welded

The IBC-SW cabinet is our newest and small est battery cabinet offering, with one large string of batteries inside. This welded cabinet offers flexibility in adding runtime with a small footprint addition to the overall system.

Dimensions	Height x depth x width	DC voltage	
All 93PM UPS models	74" x 42" x 16.7"	432V or 480V	

Integrated battery cabinet - large welded

The IBC-LW cabinet is a larger battery cabinet that can be used with six different battery models, giving customers runtime flexibility at different price points. Additionally, a single cabinet can support up to 150kW of load. This cabinet can also be configured as a high rate cabinet (IBC-LHW) to support up to 200kW of load with a single cabinet.

Dimensions	Height x depth x width	DC voltage	
All 93PM UPS models	74" x 42" x 34.2"	432V or 480V	

Samsung Lithium



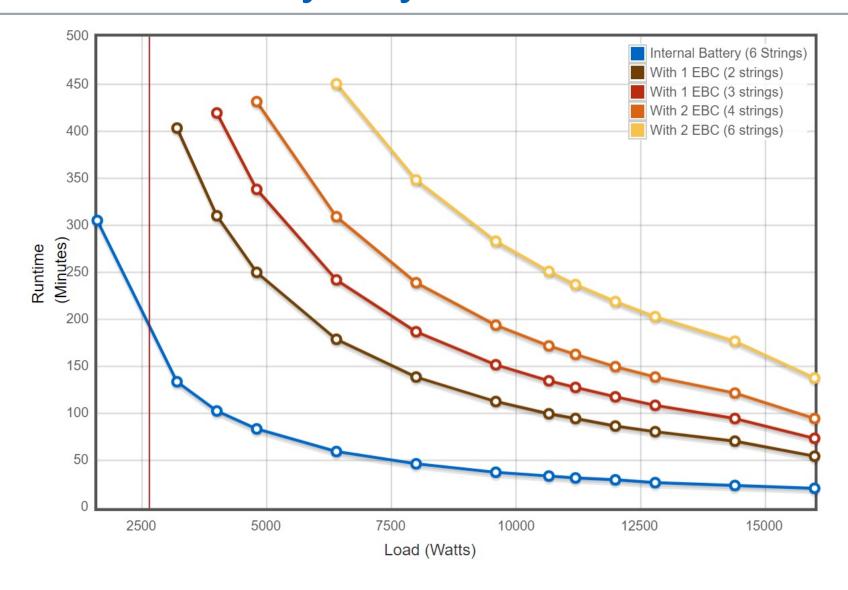
- a. Less weight
- b. More compact
- c. 10yr warranty
- d. No gassing rate



Runtime: Load vs. Battery Qty

More batteries = More runtime

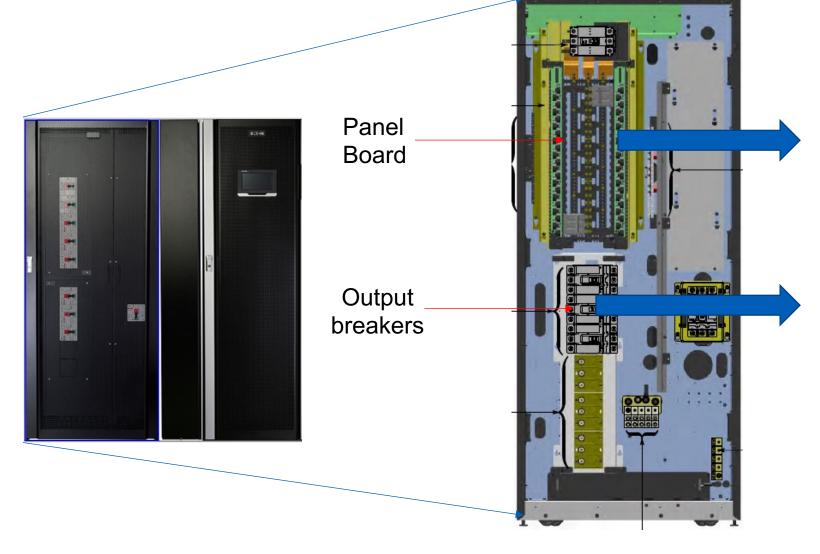
More batteries ≠ More UPS capacity





93PM – Distribution Options







93E - Economy Option to the 93PM



- Monoblock
- Firmware expandable
- PF 0.8
- 20kVA = 16kW
- 60kVA = 48kW
- Hardwired in/out

60kVA

"Pay as you grow"

20kVA



93E – Voltage



Voltage Options

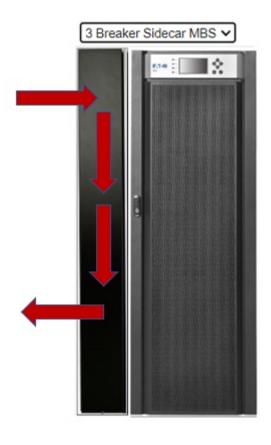
120/208VAC

127/220VAC

480VAC to 120/208VAC 480VAC



93E – Bypass Options



Wall-mount maintenance bypass panel

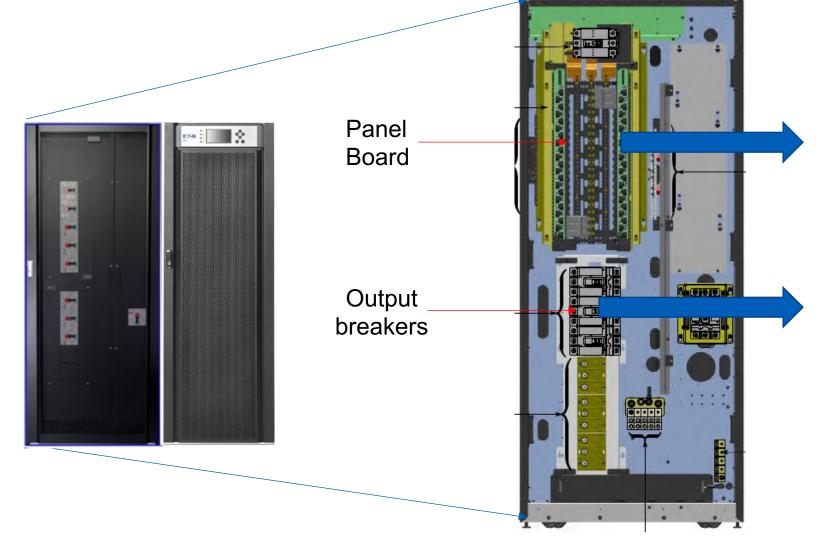






93E – Distribution Options







93E – Battery Cabinets



VRLA-lead acid Only

Line and match only

3 – 5yr life span



9355 - Robust and Reliable









"Pay as you grow"

- Mono block
- Firmware expandable
- PF 0.9
- 20kVA = 18kW
- 30kVA = 27kW
- Receptacle options
- HW in/out (20-30kVA)
- HW or Receptacles (10-15kVA)

10kVA





9355 – Voltage



Voltage Options

120/208VAC

127/220VAC

480VAC to 120/208VAC 480VAC 600VAC to 120/208VAC



9355 – Bypass Options



10 kVA



15 kVA





bypass panel

Wall-mount maintenance

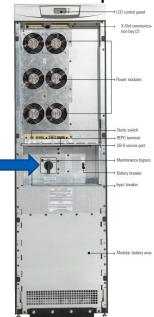


9355 10-15kVA Standard Option



Integrated power distribution module

9355 20-30kVA Standard Option





9355 – Battery Cabinets





20 kVA



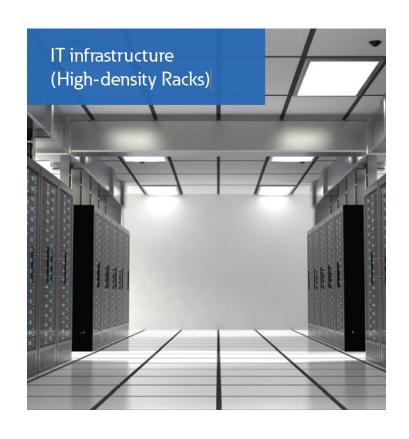
VRLA-lead acid only

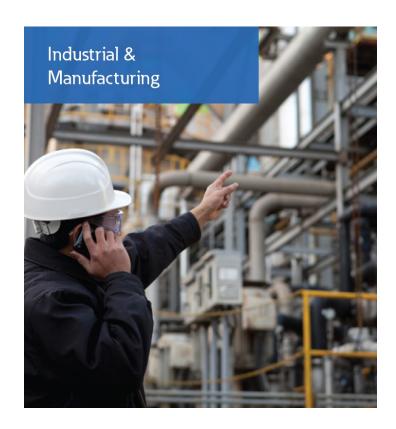
Line and match only

3 – 5yr life span



Segments/Applications

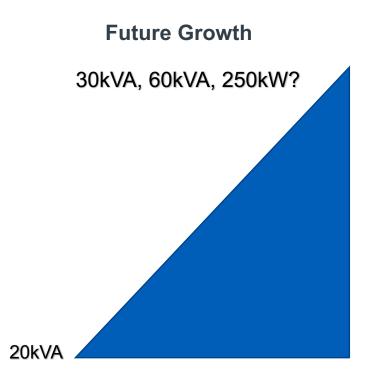








Considerations for Applications:







Cost \$\$

Multiple units VS Centralized





Codes





Other Features: 93PM, 93E and 9355

UPS	Monitoring	Parallel Capable	Dual Feed**	Seismic Option	UL924 (Lighting)
93PM	Yes, Gateway card, Relay Card	Yes, for redundancy and/or capacity	Yes	Yes	Yes
93E	Yes, Gateway card, Relay card	Yes, for redundancy and/or capacity	Yes	No	No
9355	Yes, Gateway card, Relay card	Yes, for redundancy and/or capacity	Yes	UPS, Yes EBMs, No	Yes

^{**}Dual feed systems are typically designed to receive electrical power from two different sources. Ex. two different utility companies.



What's NEW coming up??



93PX 208V Option – Rack mounted

Estimated release Q3 2024

93PXi 400V Option – Rack mounted

Estimated release Q2 2024



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