93PR 300-1200kVA Frequently asked questions

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1. What are the ratings available and different temperatures?

   There are two type of modules that we can purchase.

Ambient temperature	Module: 733-82075	Module: 733-82079
30°C	60kW	62.5kW
35°C	55kW	60kW
40°C	50kW	55kW

2. What ratings of static switches they have?

   300kVA – 300kVA

   600kVA – 600kVA

   1200kVA – 2 x 600kVA in parallel

3. Are the modules fully hotswappable?

   UPMs – Yes if there is enough spare capacity to serve the load, in the absence of one module

   Static switch – No. The UPS need to be put maintenance bypass in order to change the static switch. Since the static switch comes as a complete pluggable module Mean Time to Repair (MTTR) is less than 5 minutes.

4. How much rear clearance is recommended when installing the units?

   300kVA- 600mm for the standard model, none when installed with side car and top fans

   600kVA- 800mm for the standard model, 400kVA without any switches can be installed with the back against the wall

   1200kVA- 600mm rear clearance is required with standard and top exhaust model

5. Where is the cable entry for these units?

   Standard top entry for all models.

6. Do 93PR comes with ESS, VMMS and ECT?

   Yes, all three technologies are built in as standard.

7. What is the difference between 93PR 300-1200kVA UPS and 9395P model?

   93PR design uses Silicon Carbide Hybrid IGBT which can provide high density power than the 9395P model. Therefore, the footprint of the 93PR unit is smaller. Also due to the smaller module size, 93PR have the better upgradeability and serviceability.

8. When can we have stocks on 93PR models?

   600kVA- already available to order and we have delivered 5 x units in Australia

   300kVA &1200kVA- Can expect to deliver from December 2021. With the current shortages, it is best to forecast well in advance and pre-order if you have any projects.

9. When can we obtain the test reports for these models?

    600kVA – currently available

    300kVA & 1200kVA- End of October 2021

10. What is the standard colour scheme for the 93PR ≥300kVA models

    Eaton Glacier white is the standard colour. We can order Black colour model if required.

11. What communication cards are compatible with the 93PR range?

    Mini slot cards

12. What is the shunt trip voltage of the 93PR range?

    48V dc

13. What is the DC bus voltage range for the 93PR UPS?

    360V to 700V. The new 93PR has a standard battery configuration of 40 x blocks and can be increased up to 50 x blocks through EEP settings (maximum boost voltage in this case is 2.3V/cell).

    Please check whether the batteries can physically fit in the current battery cabinets designs before quoting configurations above 44 x blocks.

14. Do 93PR have the seismic certification?

    600kVA models has a seismic certification with local approval to use in Australia and NZ

    300kVA and 1200kVA models are going through seismic testing and the certification will be available in mid- December

15. Is 93PR compatible with Li-Ion batteries?

    Yes. They are compatible with Samsung Vision and CATL batteries. Furthermore, 93PR UPS can read some of the parameters from Li-Ion battery and display via the UPS LCD display

16. What is the conditional short circuit current rating (I_{cc}) of the UPS

    300kVA – result will be available in November 2021

    600kVA – 100kA I_{cc}

    1200kVA – result will be available in November 2021

17. What is the rated output short circuit current capability of the 93PR UPS?

    200% of the rated current at 60kW or 55kW ratings

    250% of the rated current at 50kW rating

18. Can 93PR UPS work with common battery between two units?

    Yes. The UPS units which are connected in parallel (N+1) configuration can work with common or shared battery bank.

19. What is the Mission MTBF (Mean Time Before Failure) for the 93PR range.

Rating	60kW	120kW	180kW	240kW	300kW	360kW	420kW	480kW	540kW	600kW
Mission MTBF (h)	2582246	1291181	860667	645648	516456	430471	368992	322882	287019	258329
Rating	660kW	720kW	780kW	840kW	900kW	960kW	1020kW	1080kW	1140kW	1200kW
Mission MTBF (h)	234755	215192	198639	184450	172154	161394	151900	143461	135911	129115

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