

## Runtime Charts Eaton 93E 15-40kVA UPS

### On-battery runtimes with different load ratings

L\*W\*H of internal batteries dimension are 151\*65\*94  
Internal batteries

**Eaton HPS12-36W as the default internal batteries**

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 15                   | 0.9       | 100%  | 13.5    | 32                    | 64                     | 13.2          |
| 15                   | 0.9       | 90%   | 12.2    | 32                    | 64                     | 15.0          |
| 15                   | 0.9       | 75%   | 10.1    | 32                    | 64                     | 19.2          |
| 15                   | 0.9       | 50%   | 6.8     | 32                    | 64                     | 30.0          |
| 15                   | 0.9       | 40%   | 5.4     | 32                    | 64                     | 44.0          |
| 15                   | 0.8       | 100%  | 12.0    | 32                    | 64                     | 15.5          |
| 15                   | 0.8       | 90%   | 10.8    | 32                    | 64                     | 17.5          |
| 15                   | 0.8       | 75%   | 9.0     | 32                    | 64                     | 22.0          |
| 15                   | 0.8       | 50%   | 6.0     | 32                    | 64                     | 38.4          |
| 15                   | 0.8       | 40%   | 4.8     | 32                    | 64                     | 51.0          |
| 15                   | 0.7       | 100%  | 10.5    | 32                    | 64                     | 18.6          |
| 15                   | 0.7       | 90%   | 9.5     | 32                    | 64                     | 21.3          |
| 15                   | 0.7       | 75%   | 7.9     | 32                    | 64                     | 26.5          |
| 15                   | 0.7       | 50%   | 5.3     | 32                    | 64                     | 44.0          |
| 15                   | 0.7       | 40%   | 4.2     | 32                    | 64                     | 60.0          |
| 20                   | 0.9       | 100%  | 18.0    | 32                    | 64                     | 8.9           |
| 20                   | 0.9       | 90%   | 16.2    | 32                    | 64                     | 10.0          |
| 20                   | 0.9       | 75%   | 13.5    | 32                    | 64                     | 13.8          |
| 20                   | 0.9       | 50%   | 9.0     | 32                    | 64                     | 22.7          |
| 20                   | 0.9       | 40%   | 7.2     | 32                    | 64                     | 30.0          |
| 20                   | 0.8       | 100%  | 16.0    | 32                    | 64                     | 10.4          |
| 20                   | 0.8       | 90%   | 14.4    | 32                    | 64                     | 12.5          |
| 20                   | 0.8       | 75%   | 12.0    | 32                    | 64                     | 16.4          |
| 20                   | 0.8       | 50%   | 8.0     | 32                    | 64                     | 26.4          |
| 20                   | 0.8       | 40%   | 6.4     | 32                    | 64                     | 33.8          |
| 20                   | 0.7       | 100%  | 14.0    | 32                    | 64                     | 13.2          |
| 20                   | 0.7       | 90%   | 12.6    | 32                    | 64                     | 15.4          |
| 20                   | 0.7       | 75%   | 10.5    | 32                    | 64                     | 19.1          |
| 20                   | 0.7       | 50%   | 7.0     | 32                    | 64                     | 30.0          |
| 20                   | 0.7       | 40%   | 5.6     | 32                    | 64                     | 38.4          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

**Eaton HPS12-36W as the default internal batteries**

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 30                   | 0.9       | 100%  | 27.0    | 32                    | 96                     | 8.9           |
| 30                   | 0.9       | 90%   | 24.3    | 32                    | 96                     | 10.0          |
| 30                   | 0.9       | 100%  | 27.0    | 32                    | 96                     | 8.9           |
| 30                   | 0.9       | 90%   | 24.3    | 32                    | 96                     | 10.0          |
| 30                   | 0.9       | 75%   | 20.3    | 32                    | 96                     | 13.8          |
| 30                   | 0.9       | 50%   | 13.5    | 32                    | 96                     | 22.7          |
| 30                   | 0.9       | 40%   | 10.8    | 32                    | 96                     | 30.0          |
| 30                   | 0.8       | 100%  | 24.0    | 32                    | 96                     | 10.4          |
| 30                   | 0.8       | 90%   | 21.6    | 32                    | 96                     | 12.5          |
| 30                   | 0.8       | 75%   | 18.0    | 32                    | 96                     | 16.4          |
| 30                   | 0.8       | 50%   | 12.0    | 32                    | 96                     | 26.4          |
| 30                   | 0.8       | 40%   | 9.6     | 32                    | 96                     | 33.8          |
| 30                   | 0.7       | 100%  | 21.0    | 32                    | 96                     | 13.2          |
| 30                   | 0.7       | 90%   | 18.9    | 32                    | 96                     | 15.4          |
| 30                   | 0.7       | 75%   | 15.8    | 32                    | 96                     | 19.1          |
| 30                   | 0.7       | 50%   | 10.5    | 32                    | 96                     | 30.0          |
| 30                   | 0.7       | 40%   | 8.4     | 32                    | 96                     | 38.4          |
| 40                   | 0.9       | 100%  | 36.0    | 32                    | 128                    | 8.9           |
| 40                   | 0.9       | 90%   | 32.4    | 32                    | 128                    | 10.0          |
| 40                   | 0.9       | 75%   | 27.0    | 32                    | 128                    | 13.8          |
| 40                   | 0.9       | 50%   | 18.0    | 32                    | 128                    | 22.7          |
| 40                   | 0.9       | 40%   | 14.4    | 32                    | 128                    | 30.0          |
| 40                   | 0.8       | 100%  | 32.0    | 32                    | 128                    | 10.4          |
| 40                   | 0.8       | 90%   | 28.8    | 32                    | 128                    | 12.5          |
| 40                   | 0.8       | 75%   | 24.0    | 32                    | 128                    | 16.4          |
| 40                   | 0.8       | 50%   | 16.0    | 32                    | 128                    | 26.4          |
| 40                   | 0.8       | 40%   | 12.8    | 32                    | 128                    | 33.8          |
| 40                   | 0.7       | 100%  | 28.0    | 32                    | 128                    | 13.2          |
| 40                   | 0.7       | 90%   | 25.2    | 32                    | 128                    | 15.4          |
| 40                   | 0.7       | 75%   | 21.0    | 32                    | 128                    | 19.1          |
| 40                   | 0.7       | 50%   | 14.0    | 32                    | 128                    | 30.0          |
| 40                   | 0.7       | 40%   | 11.2    | 32                    | 128                    | 38.4          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### CSB HR1234W

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 15                   | 0.9       | 100%  | 13.5    | 32                    | 64                     | 13.2          |
| 15                   | 0.9       | 90%   | 12.2    | 32                    | 64                     | 15.0          |
| 15                   | 0.9       | 75%   | 10.1    | 32                    | 64                     | 19.2          |
| 15                   | 0.9       | 50%   | 6.8     | 32                    | 64                     | 30.0          |
| 15                   | 0.9       | 40%   | 5.4     | 32                    | 64                     | 44.0          |
| 15                   | 0.8       | 100%  | 12.0    | 32                    | 64                     | 15.5          |
| 15                   | 0.8       | 90%   | 10.8    | 32                    | 64                     | 17.5          |
| 15                   | 0.8       | 75%   | 9.0     | 32                    | 64                     | 22.0          |
| 15                   | 0.8       | 50%   | 6.0     | 32                    | 64                     | 38.4          |
| 15                   | 0.8       | 40%   | 4.8     | 32                    | 64                     | 51.0          |
| 15                   | 0.7       | 100%  | 10.5    | 32                    | 64                     | 18.6          |
| 15                   | 0.7       | 90%   | 9.5     | 32                    | 64                     | 21.3          |
| 15                   | 0.7       | 75%   | 7.9     | 32                    | 64                     | 26.5          |
| 15                   | 0.7       | 50%   | 5.3     | 32                    | 64                     | 44.0          |
| 15                   | 0.7       | 40%   | 4.2     | 32                    | 64                     | 60.0          |
| 20                   | 0.9       | 100%  | 18.0    | 32                    | 64                     | 8.7           |
| 20                   | 0.9       | 90%   | 16.2    | 32                    | 64                     | 10.2          |
| 20                   | 0.9       | 75%   | 13.5    | 32                    | 64                     | 13.2          |
| 20                   | 0.9       | 50%   | 9.0     | 32                    | 64                     | 22.8          |
| 20                   | 0.9       | 40%   | 7.2     | 32                    | 64                     | 30.0          |
| 20                   | 0.8       | 100%  | 16.0    | 32                    | 64                     | 10.4          |
| 20                   | 0.8       | 90%   | 14.4    | 32                    | 64                     | 12.1          |
| 20                   | 0.8       | 75%   | 12.0    | 32                    | 64                     | 15.5          |
| 20                   | 0.8       | 50%   | 8.0     | 32                    | 64                     | 25.5          |
| 20                   | 0.8       | 40%   | 6.4     | 32                    | 64                     | 33.8          |
| 20                   | 0.7       | 100%  | 14.0    | 32                    | 64                     | 12.4          |
| 20                   | 0.7       | 90%   | 12.6    | 32                    | 64                     | 14.3          |
| 20                   | 0.7       | 75%   | 10.5    | 32                    | 64                     | 18.0          |
| 20                   | 0.7       | 50%   | 7.0     | 32                    | 64                     | 30.0          |
| 20                   | 0.7       | 40%   | 5.6     | 32                    | 64                     | 38.4          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### CSB HR1234W

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 30                   | 0.9       | 100%  | 27.0    | 32                    | 96                     | 8.7           |
| 30                   | 0.9       | 90%   | 24.3    | 32                    | 96                     | 10.2          |
| 30                   | 0.9       | 75%   | 20.3    | 32                    | 96                     | 13.2          |
| 30                   | 0.9       | 50%   | 13.5    | 32                    | 96                     | 22.8          |
| 30                   | 0.9       | 40%   | 10.8    | 32                    | 96                     | 30.0          |
| 30                   | 0.8       | 100%  | 24.0    | 32                    | 96                     | 10.4          |
| 30                   | 0.8       | 90%   | 21.6    | 32                    | 96                     | 12.1          |
| 30                   | 0.8       | 75%   | 18.0    | 32                    | 96                     | 15.5          |
| 30                   | 0.8       | 50%   | 12.0    | 32                    | 96                     | 25.5          |
| 30                   | 0.8       | 40%   | 9.6     | 32                    | 96                     | 33.8          |
| 30                   | 0.7       | 100%  | 21.0    | 32                    | 96                     | 12.4          |
| 30                   | 0.7       | 90%   | 18.9    | 32                    | 96                     | 14.3          |
| 30                   | 0.7       | 75%   | 15.8    | 32                    | 96                     | 18.0          |
| 30                   | 0.7       | 50%   | 10.5    | 32                    | 96                     | 30.0          |
| 30                   | 0.7       | 40%   | 8.4     | 32                    | 96                     | 38.4          |
| 40                   | 0.9       | 100%  | 36.0    | 32                    | 128                    | 8.7           |
| 40                   | 0.9       | 90%   | 32.4    | 32                    | 128                    | 10.2          |
| 40                   | 0.9       | 75%   | 27.0    | 32                    | 128                    | 13.2          |
| 40                   | 0.9       | 50%   | 18.0    | 32                    | 128                    | 22.8          |
| 40                   | 0.9       | 40%   | 14.4    | 32                    | 128                    | 30.0          |
| 40                   | 0.8       | 100%  | 32.0    | 32                    | 128                    | 10.4          |
| 40                   | 0.8       | 90%   | 28.8    | 32                    | 128                    | 12.1          |
| 40                   | 0.8       | 75%   | 24.0    | 32                    | 128                    | 15.5          |
| 40                   | 0.8       | 50%   | 16.0    | 32                    | 128                    | 25.5          |
| 40                   | 0.8       | 40%   | 12.8    | 32                    | 128                    | 33.8          |
| 40                   | 0.7       | 100%  | 28.0    | 32                    | 128                    | 12.4          |
| 40                   | 0.7       | 90%   | 25.2    | 32                    | 128                    | 14.3          |
| 40                   | 0.7       | 75%   | 21.0    | 32                    | 128                    | 18.0          |
| 40                   | 0.7       | 50%   | 14.0    | 32                    | 128                    | 30.0          |
| 40                   | 0.7       | 40%   | 11.2    | 32                    | 128                    | 38.4          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### Panasonic UP-RW1245ST1

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 15                   | 0.9       | 100%  | 13.5    | 32                    | 64                     | 12.4          |
| 15                   | 0.9       | 90%   | 12.2    | 32                    | 64                     | 14.0          |
| 15                   | 0.9       | 75%   | 10.1    | 32                    | 64                     | 18.0          |
| 15                   | 0.9       | 50%   | 6.8     | 32                    | 64                     | 28.7          |
| 15                   | 0.9       | 40%   | 5.4     | 32                    | 64                     | 38.4          |
| 15                   | 0.8       | 100%  | 12.0    | 32                    | 64                     | 14.3          |
| 15                   | 0.8       | 90%   | 10.8    | 32                    | 64                     | 16.4          |
| 15                   | 0.8       | 75%   | 9.0     | 32                    | 64                     | 20.5          |
| 15                   | 0.8       | 50%   | 6.0     | 32                    | 64                     | 33.8          |
| 15                   | 0.8       | 40%   | 4.8     | 32                    | 64                     | 44.0          |
| 15                   | 0.7       | 100%  | 10.5    | 32                    | 64                     | 16.9          |
| 15                   | 0.7       | 90%   | 9.5     | 32                    | 64                     | 19.2          |
| 15                   | 0.7       | 75%   | 7.9     | 32                    | 64                     | 24.5          |
| 15                   | 0.7       | 50%   | 5.3     | 32                    | 64                     | 38.4          |
| 15                   | 0.7       | 40%   | 4.2     | 32                    | 64                     | 51.0          |
| 20                   | 0.9       | 100%  | 18.0    | 32                    | 64                     | 8.1           |
| 20                   | 0.9       | 90%   | 16.2    | 32                    | 64                     | 9.6           |
| 20                   | 0.9       | 75%   | 13.5    | 32                    | 64                     | 12.4          |
| 20                   | 0.9       | 50%   | 9.0     | 32                    | 64                     | 20.5          |
| 20                   | 0.9       | 40%   | 7.2     | 32                    | 64                     | 26.5          |
| 20                   | 0.8       | 100%  | 16.0    | 32                    | 64                     | 9.7           |
| 20                   | 0.8       | 90%   | 14.4    | 32                    | 64                     | 11.2          |
| 20                   | 0.8       | 75%   | 12.0    | 32                    | 64                     | 14.0          |
| 20                   | 0.8       | 50%   | 8.0     | 32                    | 64                     | 23.6          |
| 20                   | 0.8       | 40%   | 6.4     | 32                    | 64                     | 30.0          |
| 20                   | 0.7       | 100%  | 14.0    | 32                    | 64                     | 11.6          |
| 20                   | 0.7       | 90%   | 12.6    | 32                    | 64                     | 13.4          |
| 20                   | 0.7       | 75%   | 10.5    | 32                    | 64                     | 16.9          |
| 20                   | 0.7       | 50%   | 7.0     | 32                    | 64                     | 27.6          |
| 20                   | 0.7       | 40%   | 5.6     | 32                    | 64                     | 38.4          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### Panasonic UP-RW1245ST1

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 30                   | 0.9       | 100%  | 27.0    | 32                    | 96                     | 8.1           |
| 30                   | 0.9       | 90%   | 24.3    | 32                    | 96                     | 9.6           |
| 30                   | 0.9       | 75%   | 20.3    | 32                    | 96                     | 12.4          |
| 30                   | 0.9       | 50%   | 13.5    | 32                    | 96                     | 20.5          |
| 30                   | 0.9       | 40%   | 10.8    | 32                    | 96                     | 26.5          |
| 30                   | 0.8       | 100%  | 24.0    | 32                    | 96                     | 9.7           |
| 30                   | 0.8       | 90%   | 21.6    | 32                    | 96                     | 11.2          |
| 30                   | 0.8       | 75%   | 18.0    | 32                    | 96                     | 14.0          |
| 30                   | 0.8       | 50%   | 12.0    | 32                    | 96                     | 23.6          |
| 30                   | 0.8       | 40%   | 9.6     | 32                    | 96                     | 30.0          |
| 30                   | 0.7       | 100%  | 21.0    | 32                    | 96                     | 11.6          |
| 30                   | 0.7       | 90%   | 18.9    | 32                    | 96                     | 13.4          |
| 30                   | 0.7       | 75%   | 15.8    | 32                    | 96                     | 16.9          |
| 30                   | 0.7       | 50%   | 10.5    | 32                    | 96                     | 27.6          |
| 30                   | 0.7       | 40%   | 8.4     | 32                    | 96                     | 38.4          |
| 40                   | 0.9       | 100%  | 36.0    | 32                    | 128                    | 8.1           |
| 40                   | 0.9       | 90%   | 32.4    | 32                    | 128                    | 9.6           |
| 40                   | 0.9       | 75%   | 27.0    | 32                    | 128                    | 12.4          |
| 40                   | 0.9       | 50%   | 18.0    | 32                    | 128                    | 20.5          |
| 40                   | 0.9       | 40%   | 14.4    | 32                    | 128                    | 26.5          |
| 40                   | 0.8       | 100%  | 32.0    | 32                    | 128                    | 9.7           |
| 40                   | 0.8       | 90%   | 28.8    | 32                    | 128                    | 11.2          |
| 40                   | 0.8       | 75%   | 24.0    | 32                    | 128                    | 14.0          |
| 40                   | 0.8       | 50%   | 16.0    | 32                    | 128                    | 23.6          |
| 40                   | 0.8       | 40%   | 12.8    | 32                    | 128                    | 30.0          |
| 40                   | 0.7       | 100%  | 28.0    | 32                    | 128                    | 11.6          |
| 40                   | 0.7       | 90%   | 25.2    | 32                    | 128                    | 13.4          |
| 40                   | 0.7       | 75%   | 21.0    | 32                    | 128                    | 16.9          |
| 40                   | 0.7       | 50%   | 14.0    | 32                    | 128                    | 27.6          |
| 40                   | 0.7       | 40%   | 11.2    | 32                    | 128                    | 38.4          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### SP Series SSP12-9HR

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 15                   | 0.9       | 100%  | 13.5    | 32                    | 64                     | 14.0          |
| 15                   | 0.9       | 90%   | 12.2    | 32                    | 64                     | 15.9          |
| 15                   | 0.9       | 75%   | 10.1    | 32                    | 64                     | 19.7          |
| 15                   | 0.9       | 50%   | 6.8     | 32                    | 64                     | 30.0          |
| 15                   | 0.9       | 40%   | 5.4     | 32                    | 64                     | 43.8          |
| 15                   | 0.8       | 100%  | 12.0    | 32                    | 64                     | 16.3          |
| 15                   | 0.8       | 90%   | 10.8    | 32                    | 64                     | 18.4          |
| 15                   | 0.8       | 75%   | 9.0     | 32                    | 64                     | 22.6          |
| 15                   | 0.8       | 50%   | 6.0     | 32                    | 64                     | 38.3          |
| 15                   | 0.8       | 40%   | 4.8     | 32                    | 64                     | 50.8          |
| 15                   | 0.7       | 100%  | 10.5    | 32                    | 64                     | 19.0          |
| 15                   | 0.7       | 90%   | 9.5     | 32                    | 64                     | 21.8          |
| 15                   | 0.7       | 75%   | 7.9     | 32                    | 64                     | 26.4          |
| 15                   | 0.7       | 50%   | 5.3     | 32                    | 64                     | 43.8          |
| 15                   | 0.7       | 40%   | 4.2     | 32                    | 64                     | <b>55.0</b>   |
| 20                   | 0.9       | 100%  | 18.0    | 32                    | 64                     | 9.8           |
| 20                   | 0.9       | 90%   | 16.2    | 32                    | 64                     | 11.2          |
| 20                   | 0.9       | 75%   | 13.5    | 32                    | 64                     | 14.0          |
| 20                   | 0.9       | 50%   | 9.0     | 32                    | 64                     | 22.6          |
| 20                   | 0.9       | 40%   | 7.2     | 32                    | 64                     | 28.7          |
| 20                   | 0.8       | 100%  | 16.0    | 32                    | 64                     | 11.4          |
| 20                   | 0.8       | 90%   | 14.4    | 32                    | 64                     | 13.1          |
| 20                   | 0.8       | 75%   | 12.0    | 32                    | 64                     | 16.3          |
| 20                   | 0.8       | 50%   | 8.0     | 32                    | 64                     | 26.4          |
| 20                   | 0.8       | 40%   | 6.4     | 32                    | 64                     | 33.7          |
| 20                   | 0.7       | 100%  | 14.0    | 32                    | 64                     | 13.4          |
| 20                   | 0.7       | 90%   | 12.6    | 32                    | 64                     | 15.0          |
| 20                   | 0.7       | 75%   | 10.5    | 32                    | 64                     | 19.0          |
| 20                   | 0.7       | 50%   | 7.0     | 32                    | 64                     | 30.0          |
| 20                   | 0.7       | 40%   | 5.6     | 32                    | 64                     | 38.3          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### SP Series SSP12-9HR

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 30                   | 0.9       | 100%  | 27.0    | 32                    | 96                     | 10.0          |
| 30                   | 0.9       | 90%   | 24.3    | 32                    | 96                     | 11.4          |
| 30                   | 0.9       | 75%   | 20.3    | 32                    | 96                     | 14.0          |
| 30                   | 0.9       | 50%   | 13.5    | 32                    | 96                     | 22.6          |
| 30                   | 0.9       | 40%   | 10.8    | 32                    | 96                     | 28.7          |
| 30                   | 0.8       | 100%  | 24.0    | 32                    | 96                     | 11.6          |
| 30                   | 0.8       | 90%   | 21.6    | 32                    | 96                     | 13.1          |
| 30                   | 0.8       | 75%   | 18.0    | 32                    | 96                     | 16.3          |
| 30                   | 0.8       | 50%   | 12.0    | 32                    | 96                     | 26.4          |
| 30                   | 0.8       | 40%   | 9.6     | 32                    | 96                     | 33.7          |
| 30                   | 0.7       | 100%  | 21.0    | 32                    | 96                     | 13.4          |
| 30                   | 0.7       | 90%   | 18.9    | 32                    | 96                     | 15.4          |
| 30                   | 0.7       | 75%   | 15.8    | 32                    | 96                     | 19.0          |
| 30                   | 0.7       | 50%   | 10.5    | 32                    | 96                     | 30.0          |
| 30                   | 0.7       | 40%   | 8.4     | 32                    | 96                     | 38.3          |
| 40                   | 0.9       | 100%  | 36.0    | 32                    | 128                    | 10.0          |
| 40                   | 0.9       | 90%   | 32.4    | 32                    | 128                    | 11.4          |
| 40                   | 0.9       | 75%   | 27.0    | 32                    | 128                    | 14.0          |
| 40                   | 0.9       | 50%   | 18.0    | 32                    | 128                    | 22.6          |
| 40                   | 0.9       | 40%   | 14.4    | 32                    | 128                    | 28.7          |
| 40                   | 0.8       | 100%  | 32.0    | 32                    | 128                    | 11.6          |
| 40                   | 0.8       | 90%   | 28.8    | 32                    | 128                    | 13.1          |
| 40                   | 0.8       | 75%   | 24.0    | 32                    | 128                    | 16.3          |
| 40                   | 0.8       | 50%   | 16.0    | 32                    | 128                    | 26.4          |
| 40                   | 0.8       | 40%   | 12.8    | 32                    | 128                    | 33.7          |
| 40                   | 0.7       | 100%  | 28.0    | 32                    | 128                    | 13.4          |
| 40                   | 0.7       | 90%   | 25.2    | 32                    | 128                    | 15.4          |
| 40                   | 0.7       | 75%   | 21.0    | 32                    | 128                    | 19.0          |
| 40                   | 0.7       | 50%   | 14.0    | 32                    | 128                    | 30.0          |
| 40                   | 0.7       | 40%   | 11.2    | 32                    | 128                    | 38.3          |

Note!

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### YUASA NPW45-12

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 15                   | 0.9       | 100%  | 13.5    | 32                    | 64                     | 12.3          |
| 15                   | 0.9       | 90%   | 12.2    | 32                    | 64                     | 13.7          |
| 15                   | 0.9       | 75%   | 10.1    | 32                    | 64                     | 17.4          |
| 15                   | 0.9       | 50%   | 6.8     | 32                    | 64                     | 28.8          |
| 15                   | 0.9       | 40%   | 5.4     | 32                    | 64                     | 38.1          |
| 15                   | 0.8       | 100%  | 12.0    | 32                    | 64                     | 14.0          |
| 15                   | 0.8       | 90%   | 10.8    | 32                    | 64                     | 15.9          |
| 15                   | 0.8       | 75%   | 9.0     | 32                    | 64                     | 19.8          |
| 15                   | 0.8       | 50%   | 6.0     | 32                    | 64                     | 33.7          |
| 15                   | 0.8       | 40%   | 4.8     | 32                    | 64                     | 43.6          |
| 15                   | 0.7       | 100%  | 10.5    | 32                    | 64                     | 16.4          |
| 15                   | 0.7       | 90%   | 9.5     | 32                    | 64                     | 19.2          |
| 15                   | 0.7       | 75%   | 7.9     | 32                    | 64                     | 23.6          |
| 15                   | 0.7       | 50%   | 5.3     | 32                    | 64                     | 38.1          |
| 15                   | 0.7       | 40%   | 4.2     | 32                    | 64                     | 50.7          |
| 20                   | 0.9       | 100%  | 18.0    | 32                    | 64                     | 8.6           |
| 20                   | 0.9       | 90%   | 16.2    | 32                    | 64                     | 9.8           |
| 20                   | 0.9       | 75%   | 13.5    | 32                    | 64                     | 12.1          |
| 20                   | 0.9       | 50%   | 9.0     | 32                    | 64                     | 19.8          |
| 20                   | 0.9       | 40%   | 7.2     | 32                    | 64                     | 26.5          |
| 20                   | 0.8       | 100%  | 16.0    | 32                    | 64                     | 10.0          |
| 20                   | 0.8       | 90%   | 14.4    | 32                    | 64                     | 11.4          |
| 20                   | 0.8       | 75%   | 12.0    | 32                    | 64                     | 14.0          |
| 20                   | 0.8       | 50%   | 8.0     | 32                    | 64                     | 22.8          |
| 20                   | 0.8       | 40%   | 6.4     | 32                    | 64                     | 30.0          |
| 20                   | 0.7       | 100%  | 14.0    | 32                    | 64                     | 11.6          |
| 20                   | 0.7       | 90%   | 12.6    | 32                    | 64                     | 13.1          |
| 20                   | 0.7       | 75%   | 10.5    | 32                    | 64                     | 16.4          |
| 20                   | 0.7       | 50%   | 7.0     | 32                    | 64                     | 27.6          |
| 20                   | 0.7       | 40%   | 5.6     | 32                    | 64                     | 33.7          |

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## Runtime Charts Eaton 93E 15-40kVA UPS

Internal batteries

### YUASA NPW45-12

| 93E UPS rating (kVA) | Output PF | load% | Load kW | Battery blocks/string | Total battery quantity | Run time(min) |
|----------------------|-----------|-------|---------|-----------------------|------------------------|---------------|
| 30                   | 0.9       | 100%  | 27.0    | 32                    | 96                     | 8.6           |
| 30                   | 0.9       | 90%   | 24.3    | 32                    | 96                     | 9.8           |
| 30                   | 0.9       | 75%   | 20.3    | 32                    | 96                     | 12.1          |
| 30                   | 0.9       | 50%   | 13.5    | 32                    | 96                     | 19.8          |
| 30                   | 0.9       | 40%   | 10.8    | 32                    | 96                     | 26.5          |
| 30                   | 0.8       | 100%  | 24.0    | 32                    | 96                     | 10.0          |
| 30                   | 0.8       | 90%   | 21.6    | 32                    | 96                     | 11.4          |
| 30                   | 0.8       | 75%   | 18.0    | 32                    | 96                     | 14.0          |
| 30                   | 0.8       | 50%   | 12.0    | 32                    | 96                     | 22.8          |
| 30                   | 0.8       | 40%   | 9.6     | 32                    | 96                     | 30.0          |
| 30                   | 0.7       | 100%  | 21.0    | 32                    | 96                     | 11.6          |
| 30                   | 0.7       | 90%   | 18.9    | 32                    | 96                     | 13.1          |
| 30                   | 0.7       | 75%   | 15.8    | 32                    | 96                     | 16.4          |
| 30                   | 0.7       | 50%   | 10.5    | 32                    | 96                     | 27.6          |
| 30                   | 0.7       | 40%   | 8.4     | 32                    | 96                     | 33.7          |
| 40                   | 0.9       | 100%  | 36.0    | 32                    | 128                    | 8.6           |
| 40                   | 0.9       | 90%   | 32.4    | 32                    | 128                    | 9.8           |
| 40                   | 0.9       | 75%   | 27.0    | 32                    | 128                    | 12.1          |
| 40                   | 0.9       | 50%   | 18.0    | 32                    | 128                    | 19.8          |
| 40                   | 0.9       | 40%   | 14.4    | 32                    | 128                    | 26.5          |
| 40                   | 0.8       | 100%  | 32.0    | 32                    | 128                    | 10.0          |
| 40                   | 0.8       | 90%   | 28.8    | 32                    | 128                    | 11.4          |
| 40                   | 0.8       | 75%   | 24.0    | 32                    | 128                    | 14.0          |
| 40                   | 0.8       | 50%   | 16.0    | 32                    | 128                    | 22.8          |
| 40                   | 0.8       | 40%   | 12.8    | 32                    | 128                    | 30.0          |
| 40                   | 0.7       | 100%  | 28.0    | 32                    | 128                    | 11.6          |
| 40                   | 0.7       | 90%   | 25.2    | 32                    | 128                    | 13.1          |
| 40                   | 0.7       | 75%   | 21.0    | 32                    | 128                    | 16.4          |
| 40                   | 0.7       | 50%   | 14.0    | 32                    | 128                    | 27.6          |
| 40                   | 0.7       | 40%   | 11.2    | 32                    | 128                    | 33.7          |

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