

## Battery Runtimes for 480 V Systems

Battery runtimes are listed in minutes at 100% load.

Battery runtimes are estimated values based on battery manufacturer data for operation at 25 °C (77 °F).

	20 kW UPS			30 kW UPS			40 kW UPS		
Power factor	0.8	0.9	1	0.8	0.9	1	0.8	0.9	1
<b>Runtime in minutes for UPS system with one classic battery cabinet</b>									
GVSCBT1/ GVSCBT1ST	26.0	22.0	19.0	15.0	12.5	11.0	10.0	8.5	7.2
GVSCBT2/ GVSCBT2ST	34.5	30.0	26.0	20.5	17.5	15.0	13.5	11.5	10.0
GVSCBT3/ GVSCBT3ST	57.0	49.5	43.5	35.0	30.5	27.0	24.5	21.5	18.5
GVSCBT4/ GVSCBT4ST	94.5	82.5	72	57.5	49.5	43.0	39.5	34.0	29.5
GVSCBT5/ GVSCBT5ST	115	100	88.5	71.0	61.0	53.5	49.5	42.5	37.0
<b>Runtime in minutes for UPS system with two classic battery cabinets</b>									
2 x GVSCBT1/ GVSCBT1ST	63.0	54.5	47.5	38.0	32.5	28.5	26.0	22.5	19.5
2 x GVSCBT2/ GVSCBT2ST	83.0	72.0	63.0	50.5	43.5	38.0	35.0	30.0	26.0
2 x GVSCBT3/ GVSCBT3ST	125	110	99.0	80.5	70.0	62.0	57.0	50.0	44.0
2 x GVSCBT4/ GVSCBT4ST	220	190	170	135	115	100	95.5	82.5	72.0
2 x GVSCBT5/ GVSCBT5ST	265	230	205	165	140	125	115	100	85.5

	50 kW UPS			60 kW UPS			80 kW UPS			100 kW UPS		
Power factor	0.8	0.9	1	0.8	0.9	1	0.8	0.9	1	0.8	0.9	1
<b>Runtime in minutes for UPS system with one classic battery cabinet</b>												
GVSCBT1/ GVSCBT1ST	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>4</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>
GVSCBT2/ GVSCBT2ST	10.0	8.5	7.2	7.7	6.4	5.3	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>
GVSCBT3/ GVSCBT3ST	18.5	16.0	14.0	14.5	12.5	11.0	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>	NA <sup>5</sup>
GVSCBT4/ GVSCBT4ST	29.5	25.5	22.0	23.5	20.0	17.0	15.5	13.0	11.0	11.0	9.5	8.0
GVSCBT5/ GVSCBT5ST	37.0	32.0	27.5	29.0	25.0	21.5	19.5	16.5	14.5	14.5	12.0	10.0
<b>Runtime in minutes for UPS system with two classic battery cabinets</b>												
2 x GVSCBT1/ GVSCBT1ST	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>	NA	NA	NA	NA <sup>3</sup>	NA <sup>3</sup>	NA <sup>3</sup>
2 x GVSCBT2/ GVSCBT2ST	26.0	22.5	19.5	20.5	17.5	15.0	13.5 <sup>6</sup>	11.5 <sup>6</sup>	10.0 <sup>6</sup>	10.0 <sup>6</sup>	8.5 <sup>6</sup>	7.1 <sup>6</sup>
2 x GVSCBT3/ GVSCBT3ST	44.0	38.0	33.5	35.5	30.5	27.0	25.0 <sup>6</sup>	21.5 <sup>6</sup>	18.5 <sup>6</sup>	18.5 <sup>6</sup>	16.0 <sup>6</sup>	14.0 <sup>6</sup>
2 x GVSCBT4/ GVSCBT4ST	72.0	62.5	54.5	57.5	49.5	43.5	40.0	34.0	30.0	29.5	25.5	22.0
2 x GVSCBT5/ GVSCBT5ST	88.5	77.0	67.5	71.0	61.5	53.5	49.5	42.5	37.0	37.0	32.0	27.5

3. Not available as this solution consists of 32 battery blocks, the UPS minimum requirement is 40 battery blocks.

4. Not available as this solution provides less than 5 minutes runtime.

5. Not available as the battery breaker rating for this solution does not match the UPS rating.

6. Two battery cabinets are required to support a load above 60 kW.

## Battery Runtimes for 208 V Systems

Battery runtimes are listed in minutes at 100% load.

Battery runtimes are estimated values based on battery manufacturer data for operation at 25 °C (77 °F).

	10 kW UPS			15 kW UPS			20 kW UPS		
Power factor	0.8	0.9	1	0.8	0.9	1	0.8	0.9	1
<b>Runtime in minutes for UPS system with one classic battery cabinet</b>									
GVSCBT1/ GVSCBT1ST	62.0	53.5	47.0	37.0	32.0	28.0	25.5	22.0	19.0
GVSCBT2/ GVSCBT2ST	82.0	71.0	62.5	49.5	43.0	37.5	34.5	29.5	25.5
GVSCBT3/ GVSCBT3ST	125	110	98.0	79.0	69.5	61.0	56.5	49.5	43.5
GVSCBT4/ GVSCBT4ST	215	190	165	130	115	100	94.0	81.5	71.5
GVSCBT5/ GVSCBT5ST	260	225	200	160	140	120	115	100	88.0
<b>Runtime in minutes for UPS system with two classic battery cabinets</b>									
2 x GVSCBT1/ GVSCBT1ST	145	125	110	89.5	77.5	68.0	62.5	54.0	47.5
2 x GVSCBT2/ GVSCBT2ST	190	165	145	115	100	90.0	82.2	71.5	63.0
2 x GVSCBT3/ GVSCBT3ST	275	245	215	175	155	135	125	110	98.5
2 x GVSCBT4/ GVSCBT4ST	505	440	390	310	270	235	220	190	165
2 x GVSCBT5/ GVSCBT5ST	600	520	460	370	325	285	260	230	200

	25 kW UPS			30 kW UPS			40 kW UPS			50 kW UPS		
Power factor	0.8	0.9	1	0.8	0.9	1	0.8	0.9	1	0.8	0.9	1
<b>Runtime in minutes for UPS system with one classic battery cabinet</b>												
GVSCBT1/ GVSCBT1ST	19.0	16.0	14.0	15.0	12.5	10.5	9.9	8.3	7.1	7.1	5.8	5.0
GVSCBT2/ GVSCBT2ST	25.5	22.0	19.0	20.0	17.0	15.0	13.5	11.5	10.0	10.0	8.3	7.1
GVSCBT3/ GVSCBT3ST	43.5	37.5	33.0	35.0	30.0	26.5	24.5	21.0	18.5	18.5	15.5	13.5
GVSCBT4/ GVSCBT4ST	71.5	61.5	54.0	57.0	49.0	42.5	39.5	33.5	29.5	29.5	25.0	21.5
GVSCBT5/ GVSCBT5ST	88.0	75.5	66.5	70.0	60.5	53.0	49.0	42.0	36.5	36.5	31.5	27.5
<b>Runtime in minutes for UPS system with two classic battery cabinets</b>												
2 x GVSCBT1/ GVSCBT1ST	47.5	40.5	35.5	37.5	32.0	28.0	25.5	22.0	19.0	19.0	16.0	14.0
2 x GVSCBT2/ GVSCBT2ST	63.0	54.0	47.0	50.0	42.5	37.5	34.5	29.5	25.5	25.5	22.0	19.0
2 x GVSCBT3/ GVSCBT3ST	98.5	85.5	75.5	79.5	69.0	61.0	56.6	49.0	43.5	43.5	37.5	33.0
2 x GVSCBT4/ GVSCBT4ST	165	145	125	135	115	100	94.5	81.5	71.5	71.5	61.5	54.0
2 x GVSCBT5/ GVSCBT5ST	200	175	155	160	140	120	115	100	88.0	88.0	76.0	66.5