

# Galaxy VS/VM/VL/VX

## Efficiency Tables

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# Galaxy VS UPS for External Batteries

## 380/400/415 V Efficiency

20 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	94.0%	94.4%	94.1%	96.9%	96.7%	96.7%
50% load	95.7%	96.1%	95.9%	98.1%	98.2%	98.2%
75% load	96.4%	96.6%	96.6%	98.6%	98.7%	98.7%
100% load	96.7%	96.9%	96.9%	98.8%	98.9%	98.9%

20 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	95.6%	95.4%	95.3%	93.6%	93.6%	93.6%
50% load	97.7%	97.6%	97.6%	95.7%	95.7%	95.7%
75% load	98.4%	98.3%	98.3%	96.3%	96.3%	96.3%
100% load	98.7%	98.7%	98.7%	96.6%	96.6%	96.6%

30 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.0%	95.5%	95.3%	97.7%	97.7%	97.7%
50% load	96.4%	96.6%	96.6%	98.6%	98.7%	98.7%
75% load	96.7%	97.0%	96.9%	98.9%	98.9%	99.0%
100% load	96.8%	97.0%	97.0%	99.1%	99.1%	99.1%

30 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	97.0%	96.9%	96.8%	95.0%	95.0%	95.0%
50% load	98.4%	98.3%	98.3%	96.3%	96.3%	96.3%
75% load	98.8%	98.8%	98.8%	96.6%	96.6%	96.6%
100% load	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%

40 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.7%	96.1%	95.9%	98.1%	98.2%	98.2%
50% load	96.7%	96.9%	96.9%	98.8%	98.9%	98.9%
75% load	96.8%	97.0%	97.0%	99.1%	99.1%	99.1%
100% load	96.7%	96.9%	96.9%	99.2%	99.2%	99.2%

40 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	97.7%	97.6%	97.6%	95.7%	95.7%	95.7%
50% load	98.7%	98.7%	98.7%	96.6%	96.6%	96.6%
75% load	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%
100% load	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%

50 kW	Normal operation			ECO mode		
	Voltage (V)	380	400	415	380	400
25% load	96.2%	96.4%	96.3%	98.4%	98.5%	98.4%
50% load	96.8%	97.0%	97.0%	99.0%	99.0%	99.0%
75% load	96.7%	97.0%	97.0%	99.2%	99.2%	99.2%
100% load	96.4%	96.7%	96.8%	99.2%	99.3%	99.3%

50 kW	eConversion			Battery operation		
	Voltage (V)	380	400	415	380	400
25% load	98.1%	98.0%	98.0%	96.1%	96.1%	96.1%
50% load	98.9%	98.9%	98.9%	96.7%	96.7%	96.7%
75% load	99.2%	99.1%	99.1%	96.7%	96.7%	96.7%
100% load	99.3%	99.3%	99.3%	96.5%	96.5%	96.5%

60 kW	Normal operation			ECO mode		
	Voltage (V)	380	400	415	380	400
25% load	96.0%	96.0%	96.0%	98.3%	98.3%	98.3%
50% load	96.8%	96.9%	96.9%	98.9%	98.9%	98.9%
75% load	96.9%	97.0%	97.0%	99.1%	99.1%	99.1%
100% load	96.7%	96.9%	97.0%	99.2%	99.2%	99.2%

60 kW	eConversion			Battery operation		
	Voltage (V)	380	400	415	380	400
25% load	98.1%	98.0%	97.9%	95.2%	95.2%	95.2%
50% load	98.8%	98.8%	98.7%	96.4%	96.4%	96.4%
75% load	99.1%	99.0%	99.1%	96.7%	96.7%	96.7%
100% load	99.1%	99.1%	99.2%	96.7%	96.7%	96.7%

80 kW	Normal operation			ECO mode		
	Voltage (V)	380	400	415	380	400
25% load	96.2%	96.3%	96.3%	98.6%	98.6%	98.6%
50% load	96.9%	97.1%	97.0%	99.0%	99.1%	99.1%
75% load	96.9%	97.1%	97.1%	99.2%	99.2%	99.2%
100% load	96.8%	97.0%	97.1%	99.3%	99.3%	99.3%

80 kW	eConversion			Battery operation		
	Voltage (V)	380	400	415	380	400
25% load	98.1%	98.0%	98.0%	95.8%	95.8%	95.8%
50% load	98.9%	98.9%	98.9%	96.6%	96.6%	96.6%
75% load	99.1%	99.1%	99.1%	96.7%	96.7%	96.7%
100% load	99.3%	99.3%	99.3%	96.6%	96.6%	96.6%

100 kW	Normal operation			ECO mode		
	Voltage (V)	380	400	415	380	400
25% load	96.5%	96.6%	96.6%	98.8%	98.8%	98.8%
50% load	96.9%	97.1%	97.1%	99.1%	99.1%	99.2%

100 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
75% load	96.9%	97.1%	97.2%	99.3%	99.3%	99.3%
100% load	96.6%	96.8%	96.9%	99.3%	99.3%	99.4%

100 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	98.4%	98.4%	98.4%	96.2%	96.2%	96.2%
50% load	99.1%	99.1%	99.0%	96.7%	96.7%	96.7%
75% load	99.2%	99.3%	99.3%	96.7%	96.7%	96.7%
100% load	99.3%	99.3%	99.3%	96.5%	96.5%	96.5%

120 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	96.5%	96.5%	96.5%	98.7%	98.7%	98.7%
50% load	97.0%	97.0%	97.1%	99.1%	99.1%	99.1%
75% load	96.9%	97.0%	97.1%	99.2%	99.2%	99.2%
100% load	96.6%	96.7%	96.9%	99.2%	99.3%	99.3%

120 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	98.4%	98.4%	98.4%	95.3%	95.3%	95.3%
50% load	99.0%	99.0%	99.0%	96.3%	96.3%	96.3%
75% load	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%
100% load	99.3%	99.3%	99.3%	96.6%	96.6%	96.6%

150 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	96.5%	96.5%	96.5%	98.8%	98.9%	98.9%
50% load	97.0%	97.1%	97.1%	99.1%	99.2%	99.2%
75% load	96.9%	97.0%	97.1%	99.2%	99.2%	99.3%
100% load	96.5%	96.8%	96.9%	99.2%	99.3%	99.3%

150 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	98.6%	98.6%	98.5%	96.0%	96.0%	96.0%
50% load	99.1%	99.1%	99.1%	96.6%	96.6%	96.6%
75% load	99.2%	99.3%	99.3%	96.7%	96.7%	96.7%
100% load	99.2%	99.3%	99.3%	96.6%	96.6%	96.6%

## 480 V Efficiency

### Normal Operation

UPS rating	20 kW	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	120 kW	150 kW
25% load	93.6%	95.0%	95.8%	96.2%	95.8%	96.1%	96.5%	96.2%	96.3%
50% load	95.8%	96.5%	96.9%	97.1%	96.8%	97.1%	97.2%	97.1%	97.1%

**Normal Operation (Continued)**

UPS rating	20 kW	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	120 kW	150 kW
75% load	96.5%	97.0%	97.2%	97.3%	97.2%	97.3%	97.4%	97.3%	97.3%
100% load	96.9%	97.2%	97.3%	97.2%	97.2%	97.3%	97.3%	97.2%	97.2%

**ECO Mode**

UPS rating	20 kW	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	120 kW	150 kW
25% load	96.8%	97.7%	98.2%	98.5%	98.3%	98.6%	98.8%	98.8%	98.9%
50% load	98.2%	98.7%	98.9%	99.1%	99.0%	99.1%	99.2%	99.2%	99.3%
75% load	98.7%	99.0%	99.2%	99.2%	99.2%	99.3%	99.3%	99.3%	99.4%
100% load	98.9%	99.2%	99.3%	99.3%	99.3%	99.3%	99.4%	99.4%	99.4%

**eConversion**

UPS rating	20 kW	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	120 kW	150 kW
25% load	94.9%	96.5%	97.2%	97.8%	97.5%	97.7%	98.1%	98.0%	98.1%
50% load	97.2%	98.1%	98.5%	98.8%	98.6%	98.8%	99.0%	98.8%	98.9%
75% load	98.1%	98.7%	98.9%	99.1%	98.9%	99.1%	99.2%	99.1%	99.1%
100% load	98.5%	98.9%	99.2%	99.3%	99.1%	99.3%	99.4%	99.2%	99.2%

**Battery Operation**

UPS rating	20 kW	30 kW	40 kW	50 kW	60 kW	80 kW	100 kW	120 kW	150 kW
25% load	93.5%	94.8%	95.4%	95.7%	94.9%	95.6%	96.0%	95.3%	96.0%
50% load	95.4%	95.9%	96.2%	96.4%	96.2%	96.5%	96.6%	96.3%	96.6%
75% load	95.9%	96.3%	96.4%	96.5%	96.6%	96.7%	96.7%	96.6%	96.7%
100% load	96.2%	96.4%	96.5%	96.5%	96.7%	96.7%	96.6%	96.6%	96.6%

**200/208/220 V Efficiency**

10 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	90.4%	90.6%	90.9%	93.8%	93.6%	93.9%
50% load	93.3%	93.5%	93.6%	96.5%	96.4%	96.5%
75% load	94.3%	94.4%	94.7%	97.4%	97.3%	97.4%
100% load	94.6%	94.8%	95.1%	97.8%	97.8%	97.9%

10 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	92.8%	93.3%	93.0%	91.6%	91.6%	91.6%
50% load	96.0%	96.3%	96.2%	94.0%	94.0%	94.0%
75% load	97.1%	97.3%	97.3%	94.8%	94.8%	94.8%
100% load	97.6%	97.9%	97.9%	95.2%	95.2%	95.2%

15 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	92.3%	92.5%	92.7%	95.5%	95.4%	95.7%
50% load	94.3%	94.4%	94.7%	97.4%	97.3%	97.4%



15 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
75% load	94.6%	94.9%	95.1%	98.0%	98.0%	98.0%
100% load	94.5%	94.8%	95.2%	98.3%	98.3%	98.3%

15 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	95.0%	95.3%	95.0%	93.2%	93.2%	93.2%
50% load	97.1%	97.3%	97.3%	94.8%	94.8%	94.8%
75% load	97.8%	98.1%	98.1%	95.3%	95.3%	95.3%
100% load	98.2%	98.4%	98.4%	95.5%	95.5%	95.5%

20 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.3%	93.5%	93.6%	96.5%	96.4%	96.5%
50% load	94.6%	94.8%	95.1%	97.8%	97.8%	97.9%
75% load	94.5%	94.8%	95.2%	98.3%	98.3%	98.3%
100% load	94.1%	94.4%	94.9%	98.5%	98.5%	98.6%

20 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	96.0%	96.3%	96.2%	94.0%	94.0%	94.0%
50% load	97.6%	97.9%	97.9%	95.2%	95.2%	95.2%
75% load	98.2%	98.4%	98.4%	95.5%	95.5%	95.5%
100% load	98.5%	98.7%	98.7%	95.5%	95.5%	95.5%

25 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.9%	94.1%	94.3%	97.4%	97.3%	97.1%
50% load	94.6%	94.9%	95.2%	98.1%	98.1%	98.2%
75% load	94.3%	94.6%	95.0%	98.4%	98.5%	98.5%
100% load	93.4%	93.9%	94.5%	98.6%	98.6%	98.7%

25 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	96.6%	96.9%	96.9%	94.5%	94.5%	94.5%
50% load	97.9%	98.2%	98.2%	95.4%	95.4%	95.4%
75% load	98.4%	98.6%	98.6%	95.5%	95.5%	95.5%
100% load	98.7%	98.8%	98.8%	95.5%	95.5%	95.5%

30 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.6%	93.8%	94.0%	96.8%	96.9%	96.9%
50% load	94.7%	94.9%	95.2%	98.0%	98.0%	98.1%
75% load	94.6%	94.9%	95.2%	98.3%	98.4%	98.5%
100% load	94.0%	94.4%	94.9%	98.5%	98.6%	98.6%

30 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	96.6%	96.7%	96.6%	93.8%	93.8%	93.8%
50% load	97.9%	97.9%	97.9%	95.1%	95.1%	95.1%
75% load	98.3%	98.3%	98.4%	95.5%	95.5%	95.5%
100% load	98.4%	98.5%	98.6%	95.6%	95.6%	95.6%

40 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.9%	94.1%	94.6%	97.2%	97.3%	97.3%
50% load	94.9%	95.0%	95.6%	98.2%	98.2%	98.3%
75% load	94.7%	94.9%	95.6%	98.5%	98.5%	98.6%
100% load	94.2%	94.6%	95.3%	98.6%	98.7%	98.7%

40 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	97.0%	97.0%	97.0%	94.4%	94.4%	94.4%
50% load	98.2%	98.2%	98.3%	95.4%	95.4%	95.4%
75% load	98.6%	98.7%	98.7%	95.6%	95.6%	95.6%
100% load	98.7%	98.7%	98.8%	95.6%	95.6%	95.6%

50 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	94.4%	94.5%	95.1%	97.6%	97.6%	97.7%
50% load	94.9%	95.0%	95.6%	98.4%	98.4%	98.5%
75% load	94.4%	94.7%	95.4%	98.6%	98.7%	98.7%
100% load	93.6%	94.0%	94.9%	98.7%	98.7%	98.8%

50 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	97.5%	97.5%	97.4%	94.9%	94.9%	94.9%
50% load	98.5%	98.5%	98.6%	95.5%	95.5%	95.5%
75% load	98.7%	98.7%	98.7%	95.6%	95.6%	95.6%
100% load	98.8%	98.8%	98.8%	95.5%	95.5%	95.5%

60 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	94.4%	94.5%	94.7%	97.7%	97.7%	97.7%
50% load	94.9%	95.1%	95.4%	98.4%	98.4%	98.5%
75% load	94.4%	94.8%	95.2%	98.6%	98.6%	98.7%
100% load	93.6%	94.1%	94.6%	98.6%	98.7%	98.7%

60 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	97.4%	97.4%	97.4%	94.1%	94.2%	94.2%
50% load	98.2%	98.3%	98.3%	95.2%	95.3%	95.4%

<b>60 kW</b>	<b>eConversion</b>			<b>Battery operation</b>		
<b>Voltage (V)</b>	<b>200</b>	<b>208</b>	<b>220</b>	<b>200</b>	<b>208</b>	<b>220</b>
75% load	98.5%	98.5%	98.6%	95.3%	95.5%	95.7%
100% load	98.6%	98.6%	98.7%	95.3%	95.5%	95.7%

<b>75 kW</b>	<b>Normal operation</b>			<b>ECO mode</b>		
<b>Voltage (V)</b>	<b>200</b>	<b>208</b>	<b>220</b>	<b>200</b>	<b>208</b>	<b>220</b>
25% load	94.5%	94.6%	94.8%	97.9%	97.9%	97.9%
50% load	94.9%	95.1%	95.5%	98.4%	98.5%	98.5%
75% load	94.4%	94.7%	95.2%	98.6%	98.6%	98.7%
100% load	93.6%	94.0%	94.6%	98.6%	98.6%	98.7%

<b>75 kW</b>	<b>eConversion</b>			<b>Battery operation</b>		
<b>Voltage (V)</b>	<b>200</b>	<b>208</b>	<b>220</b>	<b>200</b>	<b>208</b>	<b>220</b>
25% load	97.6%	97.5%	97.6%	94.9%	94.9%	94.9%
50% load	98.3%	98.3%	98.4%	95.5%	95.5%	95.5%
75% load	98.5%	98.5%	98.6%	95.6%	95.6%	95.6%
100% load	98.5%	98.6%	98.6%	95.5%	95.5%	95.5%

# Galaxy VS UPS for Internal Batteries

## 400 V Efficiency

10 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	93.2%	92.8%	93.0%	94.6%	94.6%	94.8%
50% load	95.2%	95.5%	95.2%	97.0%	97.2%	97.0%
75% load	96.0%	96.2%	96.2%	97.9%	97.9%	97.9%
100% load	96.4%	96.5%	96.5%	98.3%	98.3%	98.3%

10 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	93.9%	93.8%	93.9%	90.0%	89.6%	89.6%
50% load	96.6%	96.8%	96.6%	94.1%	93.9%	93.9%
75% load	97.6%	97.7%	97.6%	95.4%	95.3%	95.2%
100% load	98.1%	98.1%	98.1%	95.9%	95.9%	95.8%

15 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	94.4%	94.4%	94.6%	96.3%	96.2%	96.2%
50% load	96.0%	96.2%	96.2%	97.9%	97.9%	97.9%
75% load	96.5%	96.6%	96.6%	98.4%	98.5%	98.4%
100% load	96.5%	96.7%	96.8%	98.7%	98.7%	98.7%

15 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	95.8%	95.6%	95.6%	92.7%	92.5%	92.4%
50% load	97.6%	97.7%	97.6%	95.4%	95.3%	95.2%
75% load	98.3%	98.3%	98.3%	96.1%	96.1%	96.0%
100% load	98.5%	98.6%	98.6%	96.3%	96.3%	96.3%

20 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.2%	95.5%	95.2%	97.0%	97.2%	97.1%
50% load	96.4%	96.5%	96.5%	98.3%	98.3%	98.3%
75% load	96.5%	96.7%	96.8%	98.7%	98.7%	98.7%
100% load	96.4%	96.6%	96.7%	98.8%	98.9%	98.9%

20 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	96.6%	96.8%	96.6%	94.1%	93.9%	93.9%
50% load	98.1%	98.1%	98.1%	95.9%	95.9%	95.8%
75% load	98.5%	98.6%	98.6%	96.3%	96.3%	96.3%
100% load	98.8%	98.8%	98.8%	96.3%	96.3%	96.3%

30 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.0%	94.9%	94.9%	97.6%	97.5%	97.6%
50% load	96.3%	96.4%	96.3%	98.5%	98.6%	98.6%
75% load	96.6%	96.8%	96.7%	98.9%	98.8%	98.9%
100% load	96.7%	96.9%	96.8%	99.0%	99.0%	99.0%

30 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	97.1%	97.0%	96.9%	92.9%	92.6%	92.3%
50% load	98.3%	98.2%	98.2%	95.7%	95.4%	95.3%
75% load	98.7%	98.7%	98.7%	96.4%	96.2%	96.2%
100% load	98.9%	98.9%	98.9%	96.5%	96.5%	96.5%

40 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.7%	95.7%	95.6%	98.1%	98.0%	98.2%
50% load	96.6%	96.7%	96.6%	98.8%	98.8%	98.8%
75% load	96.7%	96.9%	96.8%	99.0%	99.0%	99.0%
100% load	96.6%	96.8%	96.8%	99.1%	99.1%	99.1%

40 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	97.7%	97.6%	97.6%	94.3%	94.0%	93.9%
50% load	98.6%	98.5%	98.5%	96.2%	96.0%	96.0%
75% load	98.9%	98.9%	98.9%	96.5%	96.5%	96.5%
100% load	99.0%	99.0%	99.0%	96.4%	96.5%	96.6%

50 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	96.1%	96.1%	96.0%	98.3%	98.4%	98.4%
50% load	96.7%	96.8%	96.8%	98.9%	98.9%	98.9%
75% load	96.6%	96.8%	96.8%	99.1%	99.1%	99.1%
100% load	96.3%	96.6%	96.6%	99.1%	99.1%	99.2%

50 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	98.0%	98.0%	98.0%	95.2%	94.8%	94.8%
50% load	98.8%	98.8%	98.8%	96.5%	96.3%	96.3%
75% load	99.0%	99.0%	99.0%	96.5%	96.5%	96.6%
100% load	99.1%	99.1%	99.1%	96.2%	96.4%	96.5%

60 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.7%	96.0%	95.7%	98.0%	98.1%	98.1%
50% load	96.7%	96.6%	96.7%	98.9%	98.9%	98.9%

60 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
75% load	96.7%	96.8%	96.9%	99.1%	99.1%	99.1%
100% load	96.6%	96.6%	96.8%	99.2%	99.2%	99.2%

60 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	97.6%	97.7%	97.6%	95.7%	95.6%	95.5%
50% load	98.6%	98.6%	98.6%	96.6%	96.5%	96.5%
75% load	99.0%	98.9%	99.0%	96.7%	96.7%	96.7%
100% load	99.1%	99.0%	99.1%	96.6%	96.6%	96.6%

80 kW	Normal operation			ECO mode		
Voltage (V)	380	400	415	380	400	415
25% load	95.8%	95.7%	95.4%	98.3%	98.4%	98.4%
50% load	96.6%	96.7%	96.6%	98.9%	99.0%	99.0%
75% load	96.7%	96.8%	96.8%	99.1%	99.1%	99.2%
100% load	96.6%	96.8%	96.8%	99.1%	99.2%	99.2%

80 kW	eConversion			Battery operation		
Voltage (V)	380	400	415	380	400	415
25% load	97.8%	97.8%	97.7%	96.2%	96.0%	96.0%
50% load	98.7%	98.7%	98.7%	96.8%	96.7%	96.7%
75% load	98.9%	98.9%	98.9%	96.8%	96.7%	96.7%
100% load	99.0%	99.0%	99.0%	96.6%	96.6%	96.6%

100 kW	Normal operation		ECO mode	
Voltage (V)	400	415	400	415
25% load	96.1%	95.9%	98.6%	98.6%
50% load	96.8%	96.7%	99.1%	99.1%
75% load	96.8%	96.8%	99.1%	99.2%
100% load	96.5%	96.6%	99.1%	99.2%

100 kW	eConversion		Battery operation	
Voltage (V)	400	415	400	415
25% load	98.1%	98.2%	96.3%	96.3%
50% load	98.8%	98.8%	96.7%	96.7%
75% load	99.0%	99.0%	96.7%	96.7%
100% load	99.0%	99.0%	96.4%	96.5%

## 480 V Efficiency

### Normal Operation

UPS rating	20 kW	30 kW	40 kW	50 kW
25% load	94.9%	94.7%	95.2%	95.8%
50% load	96.4%	96.2%	96.6%	96.9%

**Normal Operation (Continued)**

UPS rating	20 kW	30 kW	40 kW	50 kW
75% load	96.8%	96.7%	97.0%	97.1%
100% load	96.9%	97.0%	97.1%	97.0%

**Normal Operation**

UPS rating	60 kW	80 kW	100 kW
25% load	95.3%	95.3%	95.7%
50% load	96.3%	96.4%	96.6%
75% load	96.5%	96.7%	96.7%
100% load	96.5%	96.7%	96.6%

**ECO Mode**

UPS rating	20 kW	30 kW	40 kW	50 kW
25% load	97.1%	97.7%	98.2%	98.4%
50% load	98.3%	98.6%	98.8%	98.9%
75% load	98.7%	98.9%	99.0%	99.1%
100% load	98.9%	99.0%	99.1%	99.2%

**ECO Mode**

UPS rating	60 kW	80 kW	100 kW
25% load	98.1%	98.4%	98.6%
50% load	98.9%	99.0%	99.1%
75% load	99.1%	99.2%	99.3%
100% load	99.2%	99.3%	99.3%

**eConversion**

UPS rating	20 kW	30 kW	40 kW	50 kW
25% load	96.5%	96.4%	97.2%	97.7%
50% load	98.1%	98.0%	98.3%	98.6%
75% load	98.6%	98.5%	98.7%	98.9%
100% load	98.8%	98.7%	99.0%	99.1%

**eConversion**

UPS rating	60 kW	80 kW	100 kW
25% load	97.3%	97.5%	97.9%
50% load	98.5%	98.6%	98.8%
75% load	98.9%	98.9%	99.0%
100% load	99.1%	99.0%	99.1%

**Battery Operation**

UPS rating	20 kW	30 kW	40 kW	50 kW
25% load	93.5%	91.1%	92.9%	94.1%
50% load	95.6%	94.8%	95.6%	96.1%
75% load	96.2%	95.9%	96.3%	96.4%
100% load	96.3%	96.3%	96.4%	96.3%

## Battery Operation

UPS rating	60 kW	80 kW	100 kW
25% load	95.3%	95.5%	95.9%
50% load	96.3%	96.4%	96.5%
75% load	96.6%	96.6%	96.6%
100% load	96.6%	96.6%	96.5%

## 208 V Efficiency

10 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.3%	92.1%	92.4%	94.5%	94.3%	94.5%
50% load	94.6%	94.0%	94.2%	96.7%	96.8%	96.8%
75% load	94.5%	94.1%	94.4%	97.5%	97.5%	97.6%
100% load	94.1%	93.7%	94.2%	97.8%	97.9%	97.9%

10 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	94.4%	94.3%	94.4%	89.3%	90.5%	89.6%
50% load	96.7%	96.8%	96.7%	93.3%	93.7%	93.6%
75% load	97.5%	97.5%	97.5%	94.2%	94.5%	94.6%
100% load	97.8%	97.9%	97.9%	94.4%	94.7%	94.9%

15 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	91.8%	92.3%	92.0%	95.4%	95.4%	95.5%
50% load	93.8%	94.1%	94.2%	97.2%	97.3%	97.3%
75% load	94.2%	94.5%	94.6%	97.7%	97.7%	97.8%
100% load	94.1%	94.5%	94.7%	98.0%	98.0%	98.1%

15 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	94.8%	94.7%	94.8%	88.1%	87.8%	87.9%
50% load	96.9%	97.0%	97.0%	92.7%	92.7%	93.0%
75% load	97.7%	97.7%	97.6%	94.1%	94.2%	94.5%
100% load	97.9%	98.0%	98.0%	94.7%	94.8%	95.1%

20 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	92.7%	93.3%	93.3%	96.4%	96.3%	96.3%
50% load	94.1%	94.5%	94.7%	97.6%	97.7%	97.8%
75% load	94.1%	94.5%	94.7%	98.0%	98.0%	98.1%
100% load	93.7%	94.3%	94.5%	98.2%	98.2%	98.3%



20 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	95.9%	95.9%	95.8%	90.4%	90.3%	90.4%
50% load	97.5%	97.5%	97.5%	93.8%	93.9%	94.2%
75% load	97.9%	98.0%	98.0%	94.7%	94.8%	95.1%
100% load	98.2%	98.2%	98.2%	94.9%	95.0%	95.4%

25 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.4%	93.8%	93.8%	96.9%	96.9%	96.9%
50% load	94.2%	94.5%	94.7%	97.8%	97.9%	97.9%
75% load	93.8%	94.4%	94.6%	98.1%	98.2%	98.3%
100% load	93.1%	93.5%	94.0%	98.2%	98.3%	98.4%

25 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	96.7%	96.5%	96.6%	91.8%	91.8%	91.9%
50% load	97.8%	97.8%	97.8%	94.4%	94.5%	94.8%
75% load	98.1%	98.2%	98.2%	94.9%	95.0%	95.3%
100% load	98.2%	98.3%	98.2%	94.8%	95.0%	95.3%

30 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.2%	93.2%	93.4%	96.5%	96.5%	96.6%
50% load	94.3%	94.5%	94.8%	97.9%	97.9%	98.0%
75% load	94.2%	94.5%	94.8%	98.2%	98.2%	98.3%
100% load	93.6%	94.0%	94.5%	98.3%	98.3%	98.4%

30 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	96.5%	96.4%	96.6%	94.1%	94.2%	94.2%
50% load	97.7%	97.7%	97.8%	95.2%	95.3%	95.4%
75% load	98.1%	98.1%	98.2%	95.3%	95.5%	95.7%
100% load	98.2%	98.3%	98.3%	95.3%	95.5%	95.7%

40 kW	Normal operation			ECO mode		
Voltage (V)	200	208	220	200	208	220
25% load	93.3%	93.4%	94.7%	97.1%	97.2%	97.2%
50% load	94.4%	94.6%	95.6%	98.0%	98.1%	98.2%
75% load	94.2%	95.3%	95.5%	98.2%	98.3%	98.4%
100% load	93.6%	94.8%	95.2%	98.2%	98.3%	98.4%

40 kW	eConversion			Battery operation		
Voltage (V)	200	208	220	200	208	220
25% load	96.6%	96.6%	96.3%	94.4%	94.6%	94.7%
50% load	97.8%	97.9%	97.9%	95.3%	95.4%	95.6%

<b>40 kW</b>	<b>eConversion</b>			<b>Battery operation</b>		
<b>Voltage (V)</b>	<b>200</b>	<b>208</b>	<b>220</b>	<b>200</b>	<b>208</b>	<b>220</b>
75% load	98.1%	98.2%	98.2%	95.4%	95.6%	95.8%
100% load	98.2%	98.2%	98.3%	95.3%	95.5%	95.7%

<b>50 kW</b>	<b>Normal operation</b>			<b>ECO mode</b>		
<b>Voltage (V)</b>	<b>200</b>	<b>208</b>	<b>220</b>	<b>200</b>	<b>208</b>	<b>220</b>
25% load	93.8%	94.0%	95.1%	97.3%	97.4%	97.4%
50% load	94.3%	95.4%	95.6%	98.2%	98.2%	98.3%
75% load	93.8%	95.0%	95.3%	98.2%	98.3%	98.4%
100% load	92.8%	94.3%	94.7%	98.2%	98.3%	98.4%

<b>50 kW</b>	<b>eConversion</b>			<b>Battery operation</b>		
<b>Voltage (V)</b>	<b>200</b>	<b>208</b>	<b>220</b>	<b>200</b>	<b>208</b>	<b>220</b>
25% load	97.3%	97.2%	97.3%	94.8%	94.9%	95.1%
50% load	98.0%	98.1%	98.1%	95.4%	95.5%	95.7%
75% load	98.2%	98.2%	98.3%	95.3%	95.5%	95.7%
100% load	98.1%	98.2%	98.3%	95.1%	95.3%	95.6%

# Galaxy VM UPS

## 380/400/415/440 V Efficiency

The tables below provide average system efficiencies with a balanced linear load, and a power factor of 0.9.

160 kVA	Normal operation				ECO mode			
Voltage (V)	380	400	415	440	380	400	415	440
25% load	95.7	95.7	95.7	95.7	98.2	98.3	98.3	98.3
50% load	96.3	96.4	96.5	96.4	99.0	98.9	99.0	99.0
75% load	96.1	96.3	96.3	96.4	99.1	99.2	99.2	99.3
100% load	95.7	95.9	96.1	96.2	99.2	99.3	99.3	99.3

160 kVA	eConversion				Battery operation			
Voltage (V)	380	400	415	440	380	400	415	440
25% load	97.5	97.3	97.3	97.2	96.8	96.8	96.8	96.8
50% load	98.6	98.5	98.5	98.4	96.5	96.5	96.5	96.5
75% load	98.9	98.9	98.8	98.8	96.4	96.4	96.4	96.4
100% load	99.0	99.0	99.0	99.0	96.0	96.0	96.0	96.0

200 kVA	Normal operation				ECO mode			
Voltage (V)	380	400	415	440	380	400	415	440
25% load	95.8	95.9	95.8	95.8	98.6	98.6	98.6	98.5
50% load	96.3	96.4	96.5	96.4	99.1	99.1	99.1	99.1
75% load	96.0	96.2	96.4	96.4	99.2	99.2	99.3	99.3
100% load	95.6	95.7	96.0	96.2	99.2	99.3	99.3	99.4

200 kVA	eConversion				Battery operation			
Voltage (V)	380	400	415	440	380	400	415	440
25% load	97.7	97.6	97.6	97.5	96.8	96.8	96.8	96.8
50% load	98.7	98.6	98.6	98.6	96.5	96.5	96.5	96.5
75% load	99.0	99.0	99.0	98.9	96.4	96.4	96.4	96.4
100% load	99.0	99.0	99.0	99.0	96.0	96.0	96.0	96.0

## 480 V Efficiency

The tables below provide average system efficiencies with a balanced linear load, and a power factor of 0.9.

160 kVA	Normal operation	ECO mode	eConversion	Battery operation
Voltage (V)	480	480	480	480
25% load	95.1	98.1	96.8	96.1
50% load	96.3	99.0	98.3	96.2
75% load	96.5	99.2	98.7	95.9
100% load	96.4	99.3	98.9	95.5

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<b>180 kVA</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.6	98.2	97.1	96.4
50% load	96.4	99.0	98.4	96.5
75% load	96.5	99.2	98.8	96.2
100% load	96.4	99.5	99.0	95.8

<b>225 kVA</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.8	98.5	97.4	96.3
50% load	96.4	99.1	98.6	96.2
75% load	96.5	99.4	98.9	96.0
100% load	96.4	99.5	99.0	95.7

# Galaxy VL UPS

## 380/400/415/440 V Efficiency

200 kW	Normal operation				ECO mode			
	380	400	415	440	380	400	415	440
25% load	96.5%	96.6%	96.5%	96.5%	98.9%	98.8%	98.9%	98.9%
50% load	97.0%	97.1%	97.1%	97.1%	99.3%	99.3%	99.3%	99.2%
75% load	96.9%	97.0%	97.1%	97.2%	99.3%	99.4%	99.4%	99.4%
100% load	96.5%	96.7%	96.9%	97.0%	99.4%	99.4%	99.4%	99.4%

200 kW	eConversion				Battery operation			
	380	400	415	440	380	400	415	440
25% load	98.4%	98.4%	98.3%	98.3%	96.0%	96.0%	96.0%	95.5%
50% load	99.0%	99.0%	99.0%	99.0%	96.6%	96.6%	96.6%	96.3%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

250 kW	Normal operation				ECO mode			
	380	400	415	440	380	400	415	440
25% load	96.6%	96.6%	96.6%	96.5%	98.9%	98.9%	98.9%	98.9%
50% load	97.0%	97.1%	97.1%	97.2%	99.3%	99.3%	99.3%	99.3%
75% load	96.9%	97.0%	97.1%	97.2%	99.4%	99.4%	99.4%	99.4%
100% load	96.5%	96.7%	96.8%	97.0%	99.4%	99.4%	99.4%	99.4%

250 kW	eConversion				Battery operation			
	380	400	415	440	380	400	415	440
25% load	98.4%	98.4%	98.3%	98.3%	96.1%	96.1%	96.1%	95.7%
50% load	99.0%	99.0%	99.0%	99.0%	96.6%	96.6%	96.6%	96.4%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

300 kW	Normal operation				ECO mode			
	380	400	415	440	380	400	415	440
25% load	96.6%	96.6%	96.6%	96.5%	98.9%	99.0%	98.9%	98.9%
50% load	97.0%	97.1%	97.1%	97.2%	99.3%	99.3%	99.3%	99.3%
75% load	96.9%	97.0%	97.1%	97.2%	99.4%	99.4%	99.4%	99.4%
100% load	96.5%	96.7%	96.8%	97.0%	99.4%	99.4%	99.4%	99.4%

300 kW	eConversion				Battery operation			
	380	400	415	440	380	400	415	440
25% load	98.4%	98.4%	98.3%	98.3%	96.2%	96.2%	96.2%	95.8%
50% load	99.0%	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%	96.4%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

<b>350 kW</b>	<b>Normal operation</b>				<b>ECO mode</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	96.6%	96.6%	96.6%	96.5%	99.0%	99.0%	99.0%	99.0%
50% load	97.0%	97.1%	97.1%	97.1%	99.3%	99.3%	99.3%	99.3%
75% load	96.8%	97.0%	97.1%	97.2%	99.3%	99.4%	99.4%	99.4%
100% load	96.5%	96.7%	96.8%	97.0%	99.4%	99.4%	99.4%	99.4%

<b>350 kW</b>	<b>eConversion</b>				<b>Battery operation</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	98.4%	98.4%	98.4%	98.3%	96.3%	96.3%	96.3%	95.9%
50% load	99.1%	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%	96.5%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

<b>400 kW</b>	<b>Normal operation</b>				<b>ECO mode</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	96.6%	96.6%	96.6%	96.5%	99.0%	99.0%	99.0%	99.0%
50% load	97.0%	97.1%	97.1%	97.1%	99.3%	99.3%	99.3%	99.3%
75% load	96.8%	97.0%	97.1%	97.2%	99.3%	99.4%	99.4%	99.4%
100% load	96.5%	96.7%	96.8%	97.0%	99.4%	99.4%	99.4%	99.4%

<b>400 kW</b>	<b>eConversion</b>				<b>Battery operation</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	98.4%	98.4%	98.4%	98.3%	96.3%	96.3%	96.3%	95.9%
50% load	99.1%	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%	96.5%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

<b>450 kW</b>	<b>Normal operation</b>				<b>ECO mode</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	96.6%	96.6%	96.6%	96.5%	99.0%	99.0%	99.0%	99.0%
50% load	97.0%	97.1%	97.1%	97.1%	99.3%	99.3%	99.3%	99.3%
75% load	96.8%	96.9%	97.0%	97.1%	99.3%	99.3%	99.4%	99.4%
100% load	96.4%	96.6%	96.8%	96.9%	99.3%	99.4%	99.4%	99.4%

<b>450 kW</b>	<b>eConversion</b>				<b>Battery operation</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	98.5%	98.4%	98.4%	98.3%	96.3%	96.3%	96.3%	96.0%
50% load	99.1%	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%	96.5%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

<b>500 kW</b>	<b>Normal operation</b>				<b>ECO mode</b>			
<b>Voltage (V)</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>	<b>380</b>	<b>400</b>	<b>415</b>	<b>440</b>
25% load	96.6%	96.6%	96.6%	96.5%	99.0%	99.0%	99.0%	99.0%
50% load	97.0%	97.1%	97.1%	97.1%	99.3%	99.3%	99.3%	99.3%

500 kW	Normal operation				ECO mode			
Voltage (V)	380	400	415	440	380	400	415	440
75% load	96.8%	96.9%	97.0%	97.1%	99.3%	99.3%	99.4%	99.4%
100% load	96.4%	96.6%	96.8%	96.9%	99.3%	99.4%	99.4%	99.4%

500 kW	eConversion				Battery operation			
Voltage (V)	380	400	415	440	380	400	415	440
25% load	98.5%	98.4%	98.4%	98.3%	96.3%	96.3%	96.3%	96.0%
50% load	99.1%	99.0%	99.0%	99.0%	96.7%	96.7%	96.7%	96.5%
75% load	99.2%	99.2%	99.2%	99.2%	96.6%	96.6%	96.6%	96.5%
100% load	99.3%	99.3%	99.3%	99.3%	96.4%	96.4%	96.4%	96.4%

## 480 V Efficiency

200 kW	Normal operation	ECO mode	eConversion	Battery operation
Voltage (V)	480			
25% load	96.3%	98.9%	98.1%	95.5%
50% load	97.2%	99.3%	98.9%	96.3%
75% load	97.3%	99.4%	99.2%	96.5%
100% load	97.2%	99.5%	99.3%	96.4%

250 kW	Normal operation	ECO mode	eConversion	Battery operation
Voltage (V)	480			
25% load	96.4%	99.0%	98.1%	95.7%
50% load	97.2%	99.3%	98.9%	96.4%
75% load	97.3%	99.4%	99.2%	96.5%
100% load	97.2%	99.5%	99.3%	96.4%

300 kW	Normal operation	ECO mode	eConversion	Battery operation
Voltage (V)	480			
25% load	96.4%	99.0%	98.1%	95.8%
50% load	97.2%	99.3%	98.9%	96.4%
75% load	97.3%	99.4%	99.2%	96.5%
100% load	97.2%	99.5%	99.3%	96.4%

350 kW	Normal operation	ECO mode	eConversion	Battery operation
Voltage (V)	480			
25% load	96.4%	99.1%	98.2%	95.9%
50% load	97.1%	99.4%	98.9%	96.5%
75% load	97.3%	99.5%	99.2%	96.5%
100% load	97.2%	99.5%	99.3%	96.4%

400 kW	Normal operation	ECO mode	eConversion	Battery operation
Voltage (V)	480			
25% load	96.4%	99.1%	98.2%	95.9%
50% load	97.1%	99.4%	98.9%	96.5%

<b>400 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>			
75% load	97.3%	99.5%	99.2%	96.5%
100% load	97.2%	99.5%	99.3%	96.4%

<b>450 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>			
25% load	96.4%	99.1%	98.2%	96.0%
50% load	97.1%	99.4%	99.0%	96.5%
75% load	97.2%	99.4%	99.2%	96.5%
100% load	97.1%	99.5%	99.3%	96.4%

<b>500 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>			
25% load	96.4%	99.1%	98.2%	96.0%
50% load	97.1%	99.4%	99.0%	96.5%
75% load	97.2%	99.4%	99.2%	96.5%
100% load	97.1%	99.5%	99.3%	96.4%



# Galaxy VX UPS

## 380/400/415/440 V Efficiency for UPSs with 1250 kW I/O Cabinet

500 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	96.0%	95.2%	95.2%	95.2%	97.4%	96.2%	96.3%	96.8%
50% load	96.1%	95.7%	95.7%	95.8%	99.0%	98.7%	98.8%	98.6%
75% load	95.8%	95.6%	95.6%	95.8%	99.0%	98.8%	98.8%	98.8%
100% load	95.6%	95.5%	95.6%	95.8%	99.2%	99.0%	99.0%	99.0%

500 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	99.0%	98.3%	98.4%	97.7%	96.7%	96.5%	96.6%	96.6%
50% load	98.4%	98.5%	98.1%	98.2%	96.7%	96.7%	96.5%	96.5%
75% load	99.0%	98.9%	98.9%	98.8%	94.4%	96.4%	96.3%	96.3%
100% load	99.0%	99.2%	99.2%	99.1%	96.0%	95.8%	95.5%	95.5%

625 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.1%	95.2%	95.2%	95.2%	98.0%	97.6%	97.5%	97.5%
50% load	95.7%	95.7%	95.7%	96.0%	98.9%	98.7%	98.6%	98.6%
75% load	95.6%	95.6%	95.6%	96.0%	99.0%	98.8%	98.8%	98.8%
100% load	94.9%	95.5%	95.6%	95.9%	98.9%	98.8%	98.8%	98.9%

625 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	97.1%	97.1%	98.0%	97.6%	96.9%	96.9%	96.6%	96.6%
50% load	98.4%	98.4%	98.4%	98.4%	96.3%	96.4%	96.5%	96.5%
75% load	98.7%	98.7%	98.7%	98.7%	96.3%	96.3%	96.3%	96.3%
100% load	98.8%	98.8%	98.8%	98.9%	96.1%	96.2%	95.5%	95.5%

750 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.7%	95.4%	95.4%	95.4%	98.4%	98.0%	97.9%	97.9%
50% load	95.8%	95.8%	95.9%	96.0%	98.9%	98.7%	98.6%	98.6%
75% load	95.3%	95.4%	95.7%	95.9%	99.0%	98.8%	98.8%	98.8%
100% load	94.6%	94.9%	95.2%	95.5%	99.0%	98.9%	98.9%	98.9%

750 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	97.7%	97.7%	98.6%	98.2%	96.7%	96.7%	96.6%	96.6%
50% load	98.5%	98.5%	98.5%	98.5%	96.6%	96.7%	96.6%	96.6%
75% load	98.7%	98.7%	98.7%	98.7%	96.1%	96.2%	96.2%	96.2%
100% load	98.8%	98.8%	98.8%	98.9%	95.7%	95.8%	95.8%	95.8%

800 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.1%	95.1%	95.2%	95.2%	97.8%	97.8%	98.7%	98.7%
50% load	95.8%	95.9%	96.0%	96.1%	98.6%	98.6%	98.9%	98.9%
75% load	95.7%	95.8%	96.0%	96.1%	98.9%	98.9%	98.9%	98.9%
100% load	95.4%	95.5%	95.8%	96.1%	98.9%	99.0%	99.0%	99.0%

800 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	97.5%	97.4%	97.5%	97.5%	96.2%	96.9%	97.0%	97.0%
50% load	98.5%	98.5%	98.5%	98.5%	96.4%	96.9%	96.6%	96.6%
75% load	98.8%	98.8%	98.8%	98.8%	96.3%	96.9%	96.8%	96.8%
100% load	98.9%	98.9%	99.0%	99.1%	96.0%	96.4%	96.3%	96.3%

1000 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.9%	95.6%	95.6%	95.6%	98.6%	98.2%	98.1%	98.1%
50% load	96.0%	96.0%	96.1%	96.1%	99.1%	98.9%	98.8%	98.8%
75% load	95.5%	95.6%	95.9%	95.9%	99.2%	99.0%	99.0%	99.0%
100% load	94.8%	95.1%	95.4%	95.4%	99.2%	99.1%	99.1%	99.1%

1000 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	97.9%	97.9%	98.8%	98.4%	96.8%	96.8%	96.7%	96.7%
50% load	98.7%	98.7%	98.7%	98.7%	96.7%	96.8%	96.7%	96.7%
75% load	98.9%	98.9%	98.9%	98.9%	96.2%	96.3%	96.3%	96.3%
100% load	99.0%	99.0%	99.0%	99.1%	95.8%	95.9%	95.9%	95.9%

1100 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.6%	95.6%	95.7%	95.6%	98.1%	98.2%	98.2%	0.0%
50% load	95.8%	96.0%	96.1%	96.1%	98.8%	98.8%	98.8%	0.0%
75% load	95.5%	95.8%	95.9%	95.9%	99.0%	99.1%	99.1%	0.0%
100% load	94.9%	95.3%	95.4%	95.4%	99.0%	99.0%	99.0%	99.1%

1100 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	97.8%	97.8%	97.9%	98.1%	96.4%	96.2%	96.3%	96.7%
50% load	98.7%	98.8%	98.7%	98.8%	96.6%	96.6%	96.4%	96.7%
75% load	98.8%	98.8%	98.8%	99.0%	94.5%	96.5%	96.4%	96.3%
100% load	98.6%	98.9%	98.9%	99.1%	96.0%	95.8%	95.5%	95.9%

1250 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.6%	95.6%	95.7%	95.7%	98.1%	98.2%	98.2%	98.3%
50% load	95.8%	96.0%	96.1%	96.3%	98.8%	98.8%	98.8%	98.9%

1250 kW	Normal operation				ECO mode			
Voltage (V)	380	400	415	440 V	380	400	415	440 V
75% load	95.4%	95.7%	95.8%	96.0%	98.9%	99.0%	99.0%	99.1%
100% load	94.8%	95.2%	95.3%	95.7%	99.0%	99.0%	99.0%	99.1%

1250 kW	eConversion				Battery operation			
Voltage (V)	380	400	415	440 V	380	400	415	440 V
25% load	97.9%	97.9%	98.0%	98.0%	96.7%	96.5%	96.6%	96.6%
50% load	98.7%	98.8%	98.7%	98.7%	96.7%	96.7%	96.5%	96.5%
75% load	98.9%	98.9%	98.9%	99.0%	96.4%	96.4%	96.3%	96.3%
100% load	98.7%	99.0%	99.0%	99.1%	96.0%	95.8%	95.5%	95.5%

### 380/400/415/440 V Efficiency for UPSs with 1500 kW I/O Cabinet

500 kW	Normal operation				ECO mode			
Voltage (V)	380	400	415	440 V	380	400	415	440 V
25% load	96.1%	96.3%	96.3%	96.3%	98.7%	98.7%	98.7%	98.6%
50% load	96.3%	96.5%	96.5%	96.5%	99.1%	99.1%	99.1%	99.1%
75% load	96.0%	96.2%	96.2%	96.2%	99.1%	99.1%	99.1%	99.2%
100% load	95.2%	95.4%	95.4%	95.8%	99.2%	99.2%	99.2%	99.2%

500 kW	eConversion				Battery operation			
Voltage (V)	380	400	415	440 V	380	400	415	440 V
25% load	98.5%	98.5%	98.5%	98.4%	95.9%	95.9%	95.9%	95.9%
50% load	99.1%	99.1%	99.1%	99.1%	96.4%	96.4%	96.4%	96.4%
75% load	99.1%	99.1%	99.1%	99.2%	96.0%	96.0%	96.0%	96.0%
100% load	99.1%	99.2%	99.2%	99.2%	95.6%	95.6%	95.6%	95.6%

750 kW	Normal operation				ECO mode			
Voltage (V)	380	400	415	440 V	380	400	415	440 V
25% load	96.0%	96.2%	96.2%	96.2%	98.6%	98.6%	98.6%	98.6%
50% load	96.1%	96.3%	96.3%	96.4%	99.0%	99.0%	99.0%	99.1%
75% load	95.7%	95.9%	95.9%	96.1%	99.1%	99.1%	99.1%	99.2%
100% load	95.0%	95.2%	95.2%	95.6%	99.1%	99.1%	99.1%	99.2%

750 kW	eConversion				Battery operation			
Voltage (V)	380	400	415	440 V	380	400	415	440 V
25% load	98.5%	98.5%	98.5%	98.4%	95.9%	95.9%	95.9%	95.9%
50% load	99.0%	99.0%	99.0%	99.0%	96.4%	96.4%	96.4%	96.4%
75% load	99.1%	99.1%	99.1%	99.2%	96.0%	96.0%	96.0%	96.0%
100% load	99.1%	99.1%	99.1%	99.2%	95.6%	95.6%	95.6%	95.6%

1000 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	95.9%	96.1%	96.1%	96.2%	98.6%	98.6%	98.6%	98.6%
50% load	96.0%	96.2%	96.2%	96.6%	99.0%	99.0%	99.0%	99.1%
75% load	95.4%	95.6%	95.6%	96.3%	99.1%	99.1%	99.1%	99.2%
100% load	94.8%	95.0%	95.0%	95.8%	99.1%	99.1%	99.1%	99.2%

1000 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	98.5%	98.5%	98.5%	98.3%	95.9%	96.0%	95.9%	95.9%
50% load	99.0%	99.0%	99.0%	99.0%	96.4%	96.4%	96.4%	96.4%
75% load	99.1%	99.1%	99.1%	99.1%	96.0%	96.1%	96.0%	96.0%
100% load	99.1%	99.1%	99.1%	99.1%	95.6%	95.6%	95.6%	95.6%

1250 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	96.0%	96.2%	96.2%	96.2%	98.8%	98.8%	98.8%	98.8%
50% load	96.1%	96.3%	96.3%	96.5%	99.1%	99.1%	99.1%	99.2%
75% load	95.6%	95.8%	95.8%	96.1%	99.2%	99.2%	99.2%	99.3%
100% load	95.0%	95.2%	95.2%	95.6%	99.3%	99.3%	99.3%	99.3%

1250 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	98.6%	98.6%	98.6%	98.4%	95.9%	95.9%	95.9%	95.9%
50% load	99.1%	99.1%	99.1%	99.1%	96.4%	96.4%	96.4%	96.4%
75% load	99.2%	99.2%	99.2%	99.2%	96.0%	96.0%	96.0%	96.0%
100% load	99.2%	99.2%	99.2%	99.2%	95.6%	95.6%	95.6%	95.6%

1500 kW	Normal operation				ECO mode			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	96.0%	96.2%	96.2%	96.2%	98.8%	98.8%	98.8%	98.8%
50% load	96.1%	96.3%	96.3%	96.6%	99.1%	99.1%	99.1%	99.2%
75% load	95.6%	95.8%	95.8%	96.2%	99.2%	99.2%	99.2%	99.3%
100% load	95.0%	95.2%	95.2%	95.6%	99.3%	99.3%	99.3%	99.3%

1500 kW	eConversion				Battery operation			
	Voltage (V)	380	400	415	440 V	380	400	415
25% load	98.6%	98.6%	98.6%	98.7%	95.9%	96.1%	95.9%	95.9%
50% load	99.1%	99.1%	99.1%	99.2%	96.4%	96.4%	96.4%	96.4%
75% load	99.2%	99.2%	99.2%	99.3%	96.0%	96.0%	96.0%	96.0%
100% load	99.2%	99.2%	99.2%	99.3%	95.6%	95.6%	95.6%	95.6%

## 480 V Efficiency for UPSs with 1250 kW I/O Cabinet

500 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	94.9%	97.3%	96.9%	96.6%
50% load	95.9%	98.4%	98.2%	96.7%
75% load	96.0%	98.8%	98.7%	96.3%
100% load	95.9%	99.0%	98.9%	95.9%

625 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.0%	97.5%	97.1%	96.6%
50% load	96.2%	98.6%	98.4%	96.7%
75% load	96.3%	98.8%	98.7%	96.3%
100% load	96.2%	99.0%	98.9%	95.9%

750 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.4%	97.9%	97.7%	96.5%
50% load	96.1%	98.6%	98.5%	96.6%
75% load	96.0%	98.8%	98.7%	96.2%
100% load	95.8%	98.9%	98.9%	95.8%

800 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.2%	98.7%	97.4%	98.9%
50% load	96.2%	98.9%	98.5%	96.6%
75% load	96.1%	98.9%	98.8%	96.8%
100% load	96.3%	99.0%	99.1%	96.3%

1000 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.6%	98.1%	97.9%	96.6%
50% load	96.3%	98.8%	98.7%	96.7%
75% load	96.2%	99.0%	98.9%	96.3%
100% load	96.0%	99.1%	99.1%	95.9%

1100 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.8%	98.3%	97.8%	97.8%
50% load	96.4%	98.9%	98.7%	98.7%
75% load	96.3%	99.0%	98.9%	98.9%
100% load	96.1%	99.1%	99.0%	99.0%

1250 kW	Normal operation	ECO mode	eConversion	Battery operation
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.8%	98.3%	97.9%	96.6%
50% load	96.4%	98.9%	98.7%	96.6%

<b>1250 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
75% load	96.2%	99.1%	99.0%	96.3%
100% load	96.0%	99.1%	99.1%	96.1%

## 480 V Efficiency for UPSs with 1500 kW I/O Cabinet

<b>500 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.8%	98.5%	98.2%	95.9%
50% load	96.4%	99.1%	99.1%	96.4%
75% load	96.2%	99.2%	99.2%	96.0%
100% load	96.1%	99.2%	99.2%	95.6%

<b>750 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.9%	98.5%	98.2%	95.9%
50% load	96.5%	99.1%	99.0%	96.4%
75% load	96.3%	99.2%	99.2%	96.0%
100% load	96.0%	99.2%	99.2%	95.6%

<b>1000 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	95.9%	98.6%	98.2%	95.9%
50% load	96.5%	99.1%	99.0%	96.4%
75% load	96.4%	99.2%	99.2%	96.0%
100% load	95.9%	99.2%	99.2%	95.6%

<b>1250 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	96.0%	98.7%	98.3%	95.9%
50% load	96.6%	99.2%	99.1%	96.4%
75% load	96.4%	99.3%	99.3%	96.0%
100% load	96.0%	99.3%	99.3%	95.6%

<b>1500 kW</b>	<b>Normal operation</b>	<b>ECO mode</b>	<b>eConversion</b>	<b>Battery operation</b>
<b>Voltage (V)</b>	<b>480</b>	<b>480</b>	<b>480</b>	<b>480</b>
25% load	96.0%	98.7%	98.3%	95.9%
50% load	96.5%	99.1%	99.1%	96.4%
75% load	96.3%	99.3%	99.3%	96.1%
100% load	96.0%	99.3%	99.3%	95.7%



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