



ENERGY STAR CERTIFIED

# Uninterruptible Power Supplies

Liebert - Liebert eXM : 47SA100A[0|1|2|3][C|Y][0|F|H|M|G|L]  
[0|1]

## Specifications

ENERGY STAR Unique ID:	2335263
Brand Name:	Liebert
Model Name:	Liebert eXM
Model Number:	47SA100A[0 1 2 3][C Y][0 F H M G L][0 1]
Power Conversion Mechanism:	Static
Minimum Configuration Tested Model Number:	47SA060A0C00
Active Output Power Rating Minimum Configuration (W):	60000
Apparent Output Power Rating Minimum Configuration (VA):	60000
Maximum Configuration Tested Model Number:	47SA100A0C00
Active Output Power Rating Maximum Configuration (W):	100000
Topology (ac):	Multi-Mode Double Conversion
Topology and Product Type Combined:	ac - Other
Application:	Commercial,Consumer,Data Center
Rated Input Voltage (V rms):	176-253
Rated Input Frequency (Hz):	40-70
Rated Output Voltage (V):	208-220
Rated Output Frequency (Hz):	60-60
Rack Mountable:	No
Height (mm):	2000
Width (mm):	600
Depth (mm):	1000
Normal Mode(s) Input Dependency Characteristic (ac):	Voltage and Frequency Dependent,Voltage and Frequency Independent
Modular UPS:	Yes
Number of Normal Modes:	Multiple-normal-mode
Default Normal Mode (ac):	Voltage and Frequency Dependent
Test Input Voltage (V rms):	208
Test Input Frequency (Hz):	60
Test Output Voltage (V):	208

<b>Test Output Frequency (Hz):</b>	60
<b>Total Input Power in W at 0% Load Min Config Lowest Dependency (ac):</b>	654.23
<b>Total Input Power in W at 0% Load Min Config Highest Dependency (ac):</b>	472.84
<b>Efficiency at 25% Load Min Config Lowest Dependency (ac):</b>	93.9
<b>Efficiency at 25% Load Min Config Highest Dependency (ac):</b>	97.4
<b>Efficiency at 50% Load Min Config Lowest Dependency (ac):</b>	95.3
<b>Efficiency at 50% Load Min Config Highest Dependency (ac):</b>	98.1
<b>Efficiency at 75% Load Min Config Lowest Dependency (ac):</b>	95.2
<b>Efficiency at 75% Load Min Config Highest Dependency (ac):</b>	98.2
<b>Efficiency at 100% Load Min Config Lowest Dependency (ac):</b>	94.7
<b>Efficiency at 100% Load Min Config Highest Dependency (ac):</b>	98.2
<b>Weighted Efficiency Calc Min Config Lowest Dependency:</b>	94.9
<b>Weighted Efficiency Calc Min Config Highest Dependency:</b>	98.0
<b>Minimum Configuration Input Power Factor Highest-Input Dependency:</b>	0.99
<b>Total Input Power in W at 0% Load Max Config Lowest Dependency (ac):</b>	988.85
<b>Total Input Power in W at 0% Load Max Config Highest Dependency (ac):</b>	395.4
<b>Efficiency at 25% Load Max Config Lowest Dependency (ac):</b>	94.3
<b>Efficiency at 25% Load Max Config Highest Dependency (ac):</b>	96.6
<b>Efficiency at 50% Load Max Config Lowest Dependency (ac):</b>	95.5
<b>Efficiency at 50% Load Max Config Highest Dependency (ac):</b>	97.8
<b>Efficiency at 75% Load Max Config Lowest Dependency (ac):</b>	95.3
<b>Efficiency at 75% Load Max Config Highest Dependency (ac):</b>	98.2
<b>Efficiency at 100% Load Max Config Lowest Dependency (ac):</b>	94.7
<b>Efficiency at 100% Load Max Config Highest Dependency (ac):</b>	98.4
<b>Weighted Efficiency Calc Max Config Lowest Dependency:</b>	95.1
<b>Weighted Efficiency Calc Max Config Highest Dependency:</b>	97.6

<b>Maximum Configuration Input Power Factor Lowest-Input Dependency:</b>	0.99
<b>Maximum Configuration Input Power Factor Highest-Input Dependency:</b>	0.99
<b>Efficiency (%):</b>	95.8
<b>Modular UPS Module Tested Model Number:</b>	Power module, eXM 20kVA
<b>Energy Storage Mechanism:</b>	Battery
<b>Energy Storage System Technology:</b>	Valve Regulated Lead-acid Battery
<b>Energy Storage System Configuration:</b>	Separate Enclosure
<b>Energy Storage System Removable to Another Room:</b>	Yes
<b>Energy Storage System Runtime at 100% Load (min.):</b>	5
<b>Energy Storage System Runtime at 50% Load (min.):</b>	10
<b>Energy Storage System Warranty (yrs):</b>	3
<b>Energy Storage System Information URL:</b>	N/A
<b>Network Connections Available:</b>	Serial Port,Other,USB Port,Ethernet
<b>Communication Protocols:</b>	Modbus TCP,HTTPS,Other,SNMP (v1, 2 or 3),HTTP,Modbus RTU
<b>Communication Protocol Other:</b>	BACnet,IP/MSTP,YDN23
<b>Manufacturer Take Back Program:</b>	No
<b>Model Web Page URL:</b>	<a href="https://www.vertivco.com">https://www.vertivco.com</a>
<b>Test Method Guidelines:</b>	N/A
<b>Date Available on Market:</b>	2014-08-05
<b>Date Certified:</b>	2019-01-23
<b>Markets:</b>	United States, Taiwan, Japan, Canada
<b>ENERGY STAR Certified:</b>	Yes

## Additional Model Information

Liebert eXM,47SA060A[0|1|2|3][C|Y][0|F|H|M|G|L][0|1],; Liebert eXM,47SA080A[0|1|2|3][C|Y][0|F|H|M|G|L][0|1],

**Captured On:**  
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