



ENERGY STAR CERTIFIED

Uninterruptible Power Supplies

Liebert - EXL 0450kTK56FN01000 : EXL 0450kTK56FN01000

Specifications

ENERGY STAR Unique ID:	2470714
Brand Name:	Liebert
Model Name:	EXL 0450kTK56FN01000
Model Number:	EXL 0450kTK56FN01000
Power Conversion Mechanism:	Static
Minimum Configuration Tested Model Number:	EXL 0450kTK56FN01000
Active Output Power Rating Minimum Configuration (W):	405000
Apparent Output Power Rating Minimum Configuration (VA):	450000
Topology (ac):	Multi-Mode Double Conversion
Topology and Product Type Combined:	ac - Other
Application:	Data Center,Consumer,Commercial
Rated Input Voltage (V rms):	430-528
Rated Input Frequency (Hz):	45-66
Rated Output Voltage (V):	480-480
Rated Output Frequency (Hz):	50-60
Rack Mountable:	No
Height (mm):	2150
Width (mm):	1000
Depth (mm):	900
Normal Mode(s) Input Dependency Characteristic (ac):	Voltage and Frequency Independent,Voltage and Frequency Dependent
Modular UPS:	No
Number of Normal Modes:	Multiple-normal-mode
Default Normal Mode (ac):	Voltage and Frequency Dependent
Test Input Voltage (V rms):	480
Test Input Frequency (Hz):	60
Test Output Voltage (V):	480
Test Output Frequency (Hz):	60
Total Input Power in W at 0% Load Min Config Lowest Dependency (ac):	2917.84

Total Input Power in W at 0% Load Min Config Highest Dependency (ac):	973.13
Efficiency at 25% Load Min Config Lowest Dependency (ac):	96.1
Efficiency at 25% Load Min Config Highest Dependency (ac):	98.9
Efficiency at 50% Load Min Config Lowest Dependency (ac):	96.8
Efficiency at 50% Load Min Config Highest Dependency (ac):	99.3
Efficiency at 75% Load Min Config Lowest Dependency (ac):	96.7
Efficiency at 75% Load Min Config Highest Dependency (ac):	99.4
Efficiency at 100% Load Min Config Lowest Dependency (ac):	96.5
Efficiency at 100% Load Min Config Highest Dependency (ac):	99.4
Weighted Efficiency Calc Min Config Lowest Dependency:	96.6
Weighted Efficiency Calc Min Config Highest Dependency:	99.2
Minimum Configuration Input Power Factor Highest-Input Dependency:	0.99
Efficiency (%):	97.2
Modular UPS Module Tested Model Number:	N/A
Energy Storage Mechanism:	Battery
Energy Storage System Technology:	Valve Regulated Lead-acid Battery
Energy Storage System Configuration:	Separate Enclosure
Energy Storage System Removable to Another Room:	No
Energy Storage System Runtime at 100% Load (min.):	15
Energy Storage System Runtime at 50% Load (min.):	30
Energy Storage System Warranty (yrs):	5
Energy Storage System Information URL:	http://www.enersys.com/ http://www.eastpennunigy.com/
Network Connections Available:	Serial Port,Ethernet
Communication Protocols:	Modbus TCP,SNMP (v1, 2 or 3),Modbus RTU
Manufacturer Take Back Program:	No
Model Web Page URL:	https://www.vertiv.com/en-us/products-catalog/critical-power/uninterruptible-power-supplies-ups/liebert-exl-s1/
Test Method Guidelines:	N/A
Date Available on Market:	2023-05-01
Date Certified:	2023-04-24
Markets:	United States, Taiwan, Japan, Canada
ENERGY STAR Certified:	Yes

Captured On:
05/01/2025