



ENERGY STAR CERTIFIED

# Uninterruptible Power Supplies

## Vertiv - Liebert APM2 FR1 c2 Series : 56S(c2)(d2)C(f)(g)(h)(i)(j)

### Specifications

|                                                          |                                                                   |
|----------------------------------------------------------|-------------------------------------------------------------------|
| ENERGY STAR Unique ID:                                   | 3815207                                                           |
| Brand Name:                                              | Vertiv                                                            |
| Model Name:                                              | Liebert APM2 FR1 c2 Series                                        |
| Model Number:                                            | 56S(c2)(d2)C(f)(g)(h)(i)(j)                                       |
| Power Conversion Mechanism:                              | Static                                                            |
| Minimum Configuration Tested Model Number:               | 56S(c2)(d2)C(f)(g)(h)(i)(j)                                       |
| Active Output Power Rating Minimum Configuration (W):    | 20000                                                             |
| Apparent Output Power Rating Minimum Configuration (VA): | 20000                                                             |
| Maximum Configuration Tested Model Number:               | 56S(c2)(d2)P(f)(g)(h)(i)(j)                                       |
| Active Output Power Rating Maximum Configuration (W):    | 120000                                                            |
| Topology (ac):                                           | Multi-Mode Double Conversion                                      |
| Topology and Product Type Combined:                      | ac - Other                                                        |
| Application:                                             | Data Center,Consumer,Commercial                                   |
| Rated Input Voltage (V rms):                             | 380-415                                                           |
| Rated Input Frequency (Hz):                              | 60-60                                                             |
| Rated Output Voltage (V):                                | 380-415                                                           |
| Rated Output Frequency (Hz):                             | 60-60                                                             |
| Rack Mountable:                                          | No                                                                |
| Height (mm):                                             | 2000                                                              |
| Width (mm):                                              | 600                                                               |
| Depth (mm):                                              | 1029                                                              |
| Normal Mode(s) Input Dependency Characteristic (ac):     | Voltage and Frequency Independent,Voltage and Frequency Dependent |
| Modular UPS:                                             | Yes                                                               |
| Number of Normal Modes:                                  | Multiple-normal-mode                                              |
| Default Normal Mode (ac):                                | Voltage and Frequency Independent                                 |
| Test Input Voltage (V rms):                              | 415                                                               |
| Test Input Frequency (Hz):                               | 60                                                                |
| Test Output Voltage (V):                                 | 415                                                               |

|                                                                              |        |
|------------------------------------------------------------------------------|--------|
| <b>Test Output Frequency (Hz):</b>                                           | 60     |
| <b>Total Input Power in W at 0% Load Min Config Lowest Dependency (ac):</b>  | 174.91 |
| <b>Total Input Power in W at 0% Load Min Config Highest Dependency (ac):</b> | 82.55  |
| <b>Efficiency at 25% Load Min Config Lowest Dependency (ac):</b>             | 95.4   |
| <b>Efficiency at 25% Load Min Config Highest Dependency (ac):</b>            | 97.6   |
| <b>Efficiency at 50% Load Min Config Lowest Dependency (ac):</b>             | 97.0   |
| <b>Efficiency at 50% Load Min Config Highest Dependency (ac):</b>            | 99.0   |
| <b>Efficiency at 75% Load Min Config Lowest Dependency (ac):</b>             | 97.3   |
| <b>Efficiency at 75% Load Min Config Highest Dependency (ac):</b>            | 99.4   |
| <b>Efficiency at 100% Load Min Config Lowest Dependency (ac):</b>            | 97.2   |
| <b>Efficiency at 100% Load Min Config Highest Dependency (ac):</b>           | 99.5   |
| <b>Weighted Efficiency Calc Min Config Lowest Dependency:</b>                | 96.7   |
| <b>Weighted Efficiency Calc Min Config Highest Dependency:</b>               | 98.7   |
| <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>  | 709.37 |
| <b>Total Input Power in W at 0% Load Max Config Highest Dependency (ac):</b> | 202.64 |
| <b>Efficiency at 25% Load Max Config Lowest Dependency (ac):</b>             | 96.2   |
| <b>Efficiency at 25% Load Max Config Highest Dependency (ac):</b>            | 98.7   |
| <b>Efficiency at 50% Load Max Config Lowest Dependency (ac):</b>             | 96.8   |
| <b>Efficiency at 50% Load Max Config Highest Dependency (ac):</b>            | 99.0   |
| <b>Efficiency at 75% Load Max Config Lowest Dependency (ac):</b>             | 97.0   |
| <b>Efficiency at 75% Load Max Config Highest Dependency (ac):</b>            | 99.2   |
| <b>Efficiency at 100% Load Max Config Lowest Dependency (ac):</b>            | 96.8   |
| <b>Efficiency at 100% Load Max Config Highest Dependency (ac):</b>           | 99.2   |
| <b>Weighted Efficiency Calc Max Config Lowest Dependency:</b>                | 96.7   |
| <b>Weighted Efficiency Calc Max Config Highest Dependency:</b>               | 99.0   |

|                                                                    |                                                                                                                                                                                                                     |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Maximum Configuration Input Power Factor Lowest-Input Dependency:  | 0.99                                                                                                                                                                                                                |
| Maximum Configuration Input Power Factor Highest-Input Dependency: | 0.99                                                                                                                                                                                                                |
| Efficiency (%):                                                    | 96.7                                                                                                                                                                                                                |
| Modular UPS Module Tested Model Number:                            | 56S(c2)(d2)C(f)(g)(h)(i)(j), 56S(c2)(d2)P(f)(g)(h)(i)(j)                                                                                                                                                            |
| Energy Storage Mechanism:                                          | Battery                                                                                                                                                                                                             |
| Energy Storage System Technology:                                  | Valve Regulated Lead-acid Battery                                                                                                                                                                                   |
| Energy Storage System Configuration:                               | Integral                                                                                                                                                                                                            |
| Energy Storage System Removable to Another Room:                   | No                                                                                                                                                                                                                  |
| Energy Storage System Runtime at 100% Load (min.):                 | 20                                                                                                                                                                                                                  |
| Energy Storage System Runtime at 50% Load (min.):                  | 40                                                                                                                                                                                                                  |
| Energy Storage System Warranty (yrs):                              | 1                                                                                                                                                                                                                   |
| Energy Storage System Information URL:                             | <a href="http://www.enersys.com">http://www.enersys.com</a> , <a href="http://www.eastpennunigy.com/">http://www.eastpennunigy.com/</a>                                                                             |
| Network Connections Available:                                     | USB Port                                                                                                                                                                                                            |
| Communication Protocols:                                           | Other                                                                                                                                                                                                               |
| Manufacturer Take Back Program:                                    | No                                                                                                                                                                                                                  |
| Model Web Page URL:                                                | <a href="https://www.vertivco.com/en-us/products-catalog/critical-power/uninterruptible-power-supplies-ups/">https://www.vertivco.com/en-us/products-catalog/critical-power/uninterruptible-power-supplies-ups/</a> |
| Test Method Guidelines:                                            | N/A                                                                                                                                                                                                                 |
| Date Available on Market:                                          | 2024-10-30                                                                                                                                                                                                          |
| Date Certified:                                                    | 2024-11-28                                                                                                                                                                                                          |
| Markets:                                                           | United States, Canada                                                                                                                                                                                               |
| ENERGY STAR Certified:                                             | Yes                                                                                                                                                                                                                 |

## Additional Model Information

Liebert APM2 FR1 c2 Series,56S(c2)(d2)E(f)(g)(h)(i)(j),; Liebert APM2 FR1 c2 Series,56S(c2)(d2)F(f)(g)(h)(i)(j),; Liebert APM2 FR1 c2 Series,56S(c2)(d2)H(f)(g)(h)(i)(j),; Liebert APM2 FR1 c2 Series,56S(c2)(d2)J(f)(g)(h)(i)(j),; Liebert APM2 FR1 c2 Series,56S(c2)(d2)L(f)(g)(h)(i)(j),; Liebert APM2 FR1 c2 Series,56S(c2)(d2)M(f)(g)(h)(i)(j),; Liebert APM2 FR1 c2 Series,56S(c2)(d2)N(f)(g)(h)(i)(j),

Captured On:  
06/18/2025