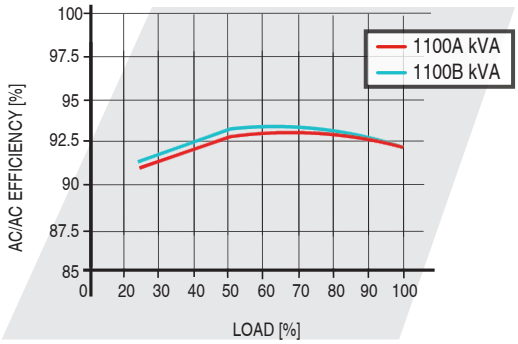
1100 SERIES DATA SHEET 10 TO 80 kVA

MITSUBISHI ELECTRIC
CRITICAL POWER SOLUTIONS

HIGH EFFICIENCY %



AC/AC EFFICIENCY CURVES

Load %	1100A 10 - 50 kVA	1100B 10 - 80 kVA
25%	91.0%	91.5%
50%	92.6%	93.1%
75%	92.7%	93.0%
100%	92.2%	92.2%

*Average AC/AC %

FEATURES & BENEFITS LITHIUM READY

1. Modular and expandable
2. Hot swappable modules
3. Space saving footprint
4. Transformer-less design using full IGBT power electronics LCD touchscreen display
5. UL924 compliant configurations

Rated Output	1100A 10 to 50 kVA (9 to 45 kW)	1100B 10 to 80 kVA (9 to 72 kW)
AC INPUT		
Configuration	3 phase, 4 wire	
Voltage	120V/208V +15%, -30%	
Frequency	60Hz ±10%	
Power Factor	> 0.98 typical	
Reflected Current THD	4% typ. at 100% load; 7% typ. at 50% load	
BATTERY		
Nominal Voltage	288 Vdc	
Minimum Voltage	240 Vdc	
Float Voltage	327 Vdc	
Type	VRLA	VRLA, Lithium Ion
AC OUTPUT		
Configuration	3 phase, 4 wire	
Voltage	120V/208V	
Voltage Regulation	±1% for balanced load; ±2% for unbalanced load	
Voltage Balance	1%	
Voltage THD	<2% at 100% linear load; <5% at 100% non-linear load	
Transient Response	±3% for step load; ±1% for loss/return of AC input; ±5% for retransfer from bypass to inverter	
Transient Recovery Time	16.7 ms	
Frequency	60Hz	
Frequency Regulation	±0.01% in free running mode	
Phase Displacement	±1° for 100% balanced load; ±3° for 100% unbalanced load	
Power Factor	0.90	
Overload Capacity	105% to 125% for 60 sec; 126% to 150% for 30 sec	
ENVIRONMENTAL		
Cooling	Forced Air	
Operating Temperature	41°F to 95°F (5°C to 35°C)	
Relative Humidity	5% to 95% non-condensing; recommended 30% to 90%	
Altitude	0 to 7283 feet (2220 m); 4921 to 7283 feet (1500 to 2220 m) de-derating	
Location	Temperature-controlled, indoor area free of conductive contaminants	
Clearance Required (Max)	Top: 16 in; Front: 31.5 in; Rear: 8 in	
GENERAL		
Weight	290 lb (132 kg) min to 730 lb (332 kg) max	499 lb (227 kg) min to 807 lb (367 kg) max
Dimensions (WxDxH) (In)	19.7 x 27.0 x 55.1	31.5 x 27.0 x 67.3

Heat Rejection (kBTU/Hr) @ 100% Load	10 kVA	20 kVA	30 kVA	40 kVA	50 kVA	60 kVA	70 kVA	80 kVA
	2.6	5.1	7.7	10.4	13	15.6	18.2	20.8

ABOUT US

Based in Pittsburgh, PA, the Critical Power Solutions Division (CPSD) is a business unit of Mitsubishi Electric Power Products, Inc. (MEPPI). Mitsubishi Electric has been manufacturing precision engineered highly reliable uninterruptible power supplies since 1964 and introduced a line of cooling systems in 2021. CPSD's operations include Project Application Engineering, Design Engineering, Service & Support, Manufacturing & Warehousing, Quality, Sales and Marketing.

OUR SERVICES

Mitsubishi Electric's highly reliable and efficient products are backed by a full range of Field and Factory Services:

- Factory Testing & Startup
- 24/7 Customer Support
- Maintenance & Repairs
- Batteries & Battery Services

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