

Facility Planning Data Sheet

MGE EPS 6000 UPS 300 / 375 kVA (208V-208V / 480V-208V / 480V-480V / 600V-600V)



UPS Rating		UPS AC Input					Battery System				AC Output		Mechanical Data				
		Voltage		Current			Rec. OCPD	Nominal VDC	Battery kW	Max. Current @ Nom. V	Current @ Full Load		Typical Dimensions WxHxD	Average Weight Lbs	Floor Loading Lbs/Ft ²	Heat Rejection BTU/Hr	Cooling Air CFM (m3/h)
		Input	Output	Full Load	Max.	Max.					OCPD						
kVA	kW																
300	240	208	208	900	1,125	1,600	480	240	647	833	1,100	162x75x33	9,815	245	66,396	2,500	
300	240	480	208	400	500	625	480	240	647	833	1,100	113x75x33	8,379	300	61,636	2,500	
300	240	480	480	400	500	625	480	240	647	361	450	63.5x75x33	5,543	353	52,269	2,500	
300	240	600	600	293	366	500	480	240	647	289	400	162x75x33	9,815	245	61,666	2,500	
375	300	208	208	1,100	1,375	1,800	480	300	809	1,041	1,400	162x75x33	10,440	260	82,995	2,500	
375	300	480	208	490	613	800	480	300	809	1,041	1,400	113x75x33	8,836	316	77,045	2,500	
375	300	480	480	490	613	800	480	300	809	451	600	63.5x75x33	5,612	357	65,336	2,500	
375	300	600	600	367	459	600	480	300	809	361	500	162x75x33	10,440	260	77,000	2,500	

- Input current based on full rated output load.
- Maximum (Max.) current is for duration of battery recharge.
- Input and bypass cables must be run in separate conduits from output cables. Not more than three conductors in raceway assumed; ambient temperature of 88°F assumed.
- If initial load is less than UPS' rated output, it is recommended that AC input, battery, and AC output wiring and overcurrent protection be sized to UPS' full load rating to accommodate possible future expansion.
- Nominal battery voltage is shown at 2.0 volts/cell per NEC 480-2.
- DC cables should be sized for a total maximum of less than 1% of CB rating.
- OCPD = Overcurrent Protection Device. Recommended represents 125% of nominal full load current (continuous) per NEC 215.
- Minimum-sized grounding conductors to be per NEC 250-122. Parity-sized ground conductors are recommended. Neutral conductors to be sized for full capacity per NEC 310-15(b)(4).
- Wiring requirements:
 - AC Input/Output: 3Ø, 3 or 4 wire + ground, depending on UPS configuration. See Installation Manual and submittal drawings for specific instructions.
 - DC Input: 2 wire (positive and negative) + ground
- All wiring to be in accordance with all applicable national and/or local electrical codes.

- Minimum access clearance per UPS drawings.
- Top or bottom cable entry through removable access plates. Punch plates to suit conduit size, then replace.
- Control wiring and power wiring must be run in separate conduit.
- Weights and dimensions shown do not include battery cabinet(s), distribution cabinet(s), or other options.
- Backup emergency generator must be properly sized for UPS application and equipped with an isochronous governor for frequency regulation, and a UPS-compatible voltage regulator for voltage stability.
- If site configuration requires an external maintenance bypass, phase parity between UPS input and UPS bypass must be ensured. Consult MGE applications engineer.
- References are per NEC 1999. Consult local codes for possible variations.

Additional Notes:

A. Temperature rating of conductors: 90°C (194°F). Reference NEC Table 310-16, 75°C column, using copper conductors. 75°C (167°F) cable terminal conductors assumed.

RATINGS OF CABLES AND OVERCURRENT DEVICES SUPPLIED FOR INFORMATION ONLY. USER TO CONSULT WITH THEIR ENGINEERING SERVICES BEFORE ADOPTING.