

Facility Planning Data Sheet

MGE Galaxy PW UPS 100 - 225 kVA (208V-208V / 480V-208V / 480V-480V)



UPS Rating		UPS AC Input						Battery System			AC Output		Mechanical Data				
		Voltage		Current		Recommended Input AWG	Rec. OCPD	Nominal VDC	Battery kW	Current @ Nom. V	Current @ Full Load		Typical Dimensions WxHxD	Average Weight Lbs	Floor Loading Lbs/Ft ²	Heat Rejection BTU/Hr	Cooling Air CFM (m ³ /h)
kVA	kW	Input	Output	Full Load	Max.						Max.	OCPD					
100	90	208	208	312	344	500 MCM	500	480	85	226	278	350	97x75x33	3,050	127	40,185	1,440
100	90	480	208	135	149	2/0 AWG	200	480	85	226	278	350	82x75x33	3,050	150	33,929	1,440
100	90	480	480	135	149	2/0 AWG	200	480	85	226	120	150	48x75x33	3,050	257	27,673	1,440
130	117	208	208	415	457	2X 250 MCM	600	480	111	294	361	450	97x75x33	3,050	127	49,661	1,440
130	117	480	208	180	198	4/0 AWG	250	480	111	294	361	450	82x75x33	3,050	150	41,258	1,440
130	117	480	480	180	198	4/0 AWG	250	480	111	294	156	225	48x75x33	3,050	257	33,396	1,440
150	135	208	208	485	533	2X 350 MCM	800	480	128	340	416	600	97x75x33	3,050	127	57,301	1,920
150	135	480	208	210	231	250 MCM	300	480	128	340	416	600	82x75x33	3,050	150	47,917	1,920
150	135	480	480	210	231	250 MCM	300	480	128	340	180	250	48x75x33	3,050	257	38,534	1,920
180	162	208	208	600	660	2X 500 MCM	1,000	480	153	408	500	800	97x75x33	3,050	127	68,762	2,400
180	162	480	208	260	286	500 MCM	400	480	153	408	500	800	82x75x33	3,050	150	57,501	2,400
180	162	480	480	260	286	500 MCM	400	480	153	408	217	300	48x75x33	3,050	257	46,240	2,400
200	180	208	208	692	738	2X 750 MCM	1,000	480	170	453	555	800	97x75x33	3,050	127	72,477	2,400
200	180	480	208	300	320	4/0 AWG	400	480	170	453	555	800	82x75x33	3,050	150	59,965	2,400
200	180	480	480	300	320	4/0 AWG	400	480	170	453	241	300	48x75x33	3,050	257	47,453	2,400
225	202.5	208	208	692	738	2X 750 MCM	1,000	480	192	510	625	800	97x75x33	3,050	127	73,383	2,400
225	202.5	480	208	300	320	2X 4/0 AWG	400	480	192	510	625	800	82x75x33	3,050	150	60,715	2,400
225	202.5	480	480	300	320	2X 4/0 AWG	400	480	192	510	271	350	48x75x33	3,050	257	48,046	2,400

- 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 86°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.