

Facility Planning Data Sheet

MGE Galaxy 3000 UPS 10 - 30 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 (m3/h)
kVA	kW	Cabinet	Input	Output	Full Load	Max.						Max.	OCPD					
10	8	Micro	208	208	28	32	8 AWG	40	240	9	39	28	40	23x49x34	780	143	4,821	480
10	8	Std	208	208	28	32	8 AWG	40	240	9	39	28	40	33x63x36	1,434	174	4,821	480
10	8	Std	480	208	12	17	10 AWG	20	240	9	39	28	40	33x63x36	1,723	209	5,800	620
10	8	Std	480	480	12	17	10 AWG	20	240	9	39	12	15	52x63x36	2,023	147	6,824	720
15	12	Micro	208	208	42	48	6 AWG	60	240	14	59	42	60	23x49x34	780	146	7,232	720
15	12	Std	208	208	42	48	6 AWG	60	240	14	59	42	60	33x63x36	1,434	174	7,232	720
15	12	Std	480	208	18	22	8 AWG	30	240	14	59	42	60	33x63x36	1,723	209	8,871	960
15	12	Std	480	480	18	22	8 AWG	30	240	14	59	18	25	52x63x36	2,023	145	10,235	1,440
20	16	Std	208	208	56	64	4 AWG	75	240	19	78	56	75	33x63x36	1,439	174	8,895	960
20	16	Std	480	208	24	29	8 AWG	40	240	19	78	56	75	33x63x36	1,839	223	10,918	1,440
20	16	Std	480	480	24	29	8 AWG	40	240	19	78	24	30	52x63x36	2,239	163	12,965	1,440
30	24	Std	208	208	83	94	2 AWG	125	240	28	116	83	125	33x63x36	1,439	174	13,342	1,440
30	24	Std	480	208	36	43	6 AWG	60	240	28	116	83	125	33x63x36	1,839	223	16,377	1,440
30	24	Std	480	480	36	43	6 AWG	60	240	28	116	36	50	52x63x36	2,239	160	19,447	1,440

- 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.