

# Facility Planning Data Sheet

## 9700 Series 100 - 225 kVA UPS (600-208)

Power Rating		UPS AC Input (600V)							Battery System			AC Output (208V)		Mechanical Information				
		Voltage		kVA		Current		Minimum Input AWG				External Overcurrent Protection	Current	External	Dimensions W x D x H	Weight Lbs	Floor Loading Lbs/ Ft²	Heat Rejection kBTU/ Hr
		kVA	kW	Vac/ Freq.	Nom.	Max.	Nom.		Max.	Nominal Voltage	Full Load kW		Maximum Discharge	Nominal				
100	80	600 / 60Hz	95	106	92	102	1 x 2/0 or larger	150A	360 VDC	87	299	278	350A	65.7x29.5x79.7	3175	236	46	4940
150	120	600 / 60Hz	143	159	138	153	1 x 4/0 or larger	200A	360 VDC	130	449	416	600A	79.5x29.5x79.7	3675	225	69	7360
225	180	600 / 60Hz	214	238	206	229	1x350 mcm or larger	300A	360 VDC	195	673	625	800A	99.4x29.5x79.7	5300	260	102	10790
Notes:						1	2	A,B,C	4,7,9,10,11	5	6,13	1	4,7,8,11	11,12				

### Notes:

1. Nominal (Nom) current based on rated load.
2. Maximum (Max.) current based on converter overload rating.
3. Input and output cables typically run in separate conduits.
4. 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.
5. Nominal battery voltage assumed to be 2.0 volts/cell (lead technology).
6. DC cables should be sized for not more than a 2.0 volt line drop at maximum discharge current.
7. Suggested AC output overcurrent protection based on continuous full load current per CEC Rules 30-714 and 34-018. 80% rated breakers assumed.
8. Grounding conductors to be sized per CEC Table 16 and applicable rules. Neutral conductors to be sized per CEC Rule 4-022.
  - AC Input: 3  $\phi$ , 3 wire + ground.  
**For single input feed, jumper bypass and converter phase conductors.**
  - Bypass Input: 3  $\phi$ , 4 wire + ground.
  - AC Output: 3  $\phi$ , 4 wire + ground.
  - DC Input: 2 wire (Positive and Negative) + ground.
9. Input neutral conductor not required for three phase loads. Install source neutral if loads include single phase type.
10. All wiring to be in accordance with all applicable national and/or local electrical codes.
11. Minimum access clearance per UPS drawings.
12. Cable entry from bottom. Punch plates accordingly. *(Side access possible. Top access possible with available side mounted wire way. Consult MEAU for specifics.)*
13. Control wiring and power wiring to be run in separate conduits.

### Additional Notes:

- i. For site configurations including emergency generators, engine generator to be sized and equipped for UPS applications. Generator equipped with governor for frequency regulation and regulator for voltage stability recommended. Note: UPS' reflected current distortion is 3% max at full load and 6% max at 50% load.
  - ii. For site configurations equipped with an external Maintenance Bypass Switch circuit, UPS must be on internal Static Bypass before transferring to external Maintenance Bypass. Consult Factory for further information.
- A. Not more than 3 conductors in raceway assumed; ambient temperature of 30 °C (86 °F) assumed.
- B. Temperature rating of conductors: 90 °C (194 °F). Reference Table 2 of CEC, 75 °C column, using copper conductors. 75 °C (167 °F) cable terminal connectors assumed.
- C. Reference: CEC handbook 1994. Consult local codes for possible variations.
- D. RATINGS OF CABLES AND OVERCURRENT DEVICES SUPPLIED FOR INFORMATION ONLY. USER TO CONSULT WITH ITS ENGINEERING SERVICES BEFORE ADOPTING.**



Mitsubishi Electric Automation, Inc.  
 500 Corporate Woods Parkway  
 Vernon Hills, Illinois 60061  
 Phone: (847) 478-2463 Fax: (847) 478-2301