

Facility Planning Data Sheet

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

Power Rating		UPS AC Input (208V)							Battery System			AC Output (208V)		Mechanical Information				
		Voltage		kVA		Current		Minimum Input AWG				External Overcurrent Protection	Current Nominal	External Overcurrent Protection	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							
100	80	208 / 60Hz	92	102	255	283	2 x 4/0 or larger	400A	360 VDC	87	299	278	350A	35.4x29.5x79.7	1900	262	34	3650
150	120	208 / 60Hz	138	153	382	425	2x350 mcm or larger	600A	360 VDC	130	449	416	600A	47.2x29.5x79.7	2350	243	51	5430
225	180	208 / 60Hz	206	229	572	635	3x300 mcm or larger	800A	360 VDC	195	673	625	800A	55.1x29.5x79.7	3300	292	74	7910
Notes:					1	2	3,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 ϕ , 3 wire + ground.
 - For single input feed, jumper bypass and converter phase conductors.**
 - Bypass Input: 3 ϕ , 4 wire + ground.
 - AC Output: 3 ϕ , 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 or Owner's Manual.
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.**



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