

Facility Planning Data Sheet

9800 Series 100 - 500 kVA UPS (600-600)

Power Rating		UPS AC Input (600V)						Battery System			AC Output (600V)		Mechanical Information						
		Voltage		kVA		Current		Minimum Input AWG	External Overcurrent Protection	Nominal Voltage	Full Load kW	Maximum Discharge	Current Nominal	External Overcurrent Protection	Dimensions (in) W x D x H	Weight Lbs	Floor Loading Lbs/ Ft ²	Heat Rejection kBTU/ Hr	Cooling Air CFM
		Vac/ Freq.	Nom.	Max.	Nom.	Max.													
100	80	600 / 60Hz	95	114	91	131	1 x 2/0 or larger	150A	360 VDC	86	285	96	150A	73.3x29.9x79.7	3245	213	31	3200	
150	120	600 / 60Hz	142	172	137	196	1 x 4/0 or larger	200A	360 VDC	129	430	144	200A	79.2x29.9x79.7	3805	231	47	4800	
225	180	600 / 60Hz	212	257	204	295	1x350 mcm or larger	300A	360 VDC	192	641	217	300A	99.1x29.9x79.7	5160	250	66	6800	
300	240	600 / 60Hz	317	343	305	393	2x300 mcm or larger	500A	480 VDC	287	717	289	400A	120.8x37.8x79.7	6890	217	96	10200	
375	300	600 / 60Hz	396	429	381	491	2x350 mcm or larger	600A	480 VDC	363	906	361	500A	130.8x37.8x79.7	7730	225	120	12600	
500	300	600 / 60Hz	535	572	515	655	3x350 mcm or larger	750A	480 VDC	474	1184	481	600A				177	18700	
Notes:			2	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 and Maximum (Max.) kVA based on inverter rated load and minimum input voltage.
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 at 600V, 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. Static bypass input neutral conductor not required if load is 3 phase only.
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 (100~225kVA). Cable entry from top (300~500kVA). Punch plates accordingly. *(Side access possible. Consult MEAU for specifics.)*
13. Control wiring and power wiring to be run in separate conduits.
14. 500 kVA UPS to utilize 480 Vdc battery. 375 kVA and 300 kVA UPSs will be modified in future to incorporate 480 Vdc battery. For 360 Vdc battery use previous FPDS, A98 480.doc

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 6% max at full load and 9% 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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