

Facility Planning Data Sheet

9800AD Series 100 - 750 kVA UPS (480-480)

Power Rating		UPS AC Input (480V)						Battery System			AC Output (480V)		Mechanical Information					
		Voltage		kVA		Current		Minimum Input AWG	External Overcurrent Protection	Nominal Voltage	Full Load kW	Maximum Discharge	Current Nominal	External Overcurrent Protection	Dimensions W x D x H	Weight Lbs	Floor Loading Lbs/ Ft ²	Heat Rejection kBTU/ Hr
kVA	kW	Vac/ Freq.	Nom.	Max.	Nom.	Max.												
100	80	480 / 60Hz	87	93	105	115	1 x 1/0 or larger	150A	480 VDC	86	215	120	150A	43.3x29.5x79.7	2,100	236	30	3200
150	120	480 / 60Hz	130	139	157	172	1x 4/0 or larger	225A	480 VDC	129	322	180	225A	47.2x29.5x79.7	2,820	291	40	4300
225	180	480 / 60Hz	193	209	233	256	1x400 mcm or larger	350A	480 VDC	191	478	271	350A	55.1x29.5x79.7	3,310	293	53	5700
300	270	480 / 60Hz	290	312	349	384	2x250 mcm or larger	500A	480 VDC	287	717	361	500A	76.8 x37.4x79.7	4,990	250	69	7300
375	337.5	480 / 60Hz	363	390	436	480	2x350 mcm or larger	600A	480 VDC	359	896	451	600A	76.8 x37.4x79.7	5,250	263	87	9200
500	450	480 / 60Hz	484	520	582	640	3x300 mcm or larger	800A	480 VDC	479	1194	601	800A	114.2 x37.4x79.7	6,930	234	98	10400
750	675	480 / 60Hz	726	780	873	960	3x600 mcm or larger	1200A	480 VDC	719	1791	902	1200A	129.9x49.2x79.7	9,660	216	147	15600
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 and Maximum (Max.) kVA based on inverter rated load and nominal battery charge current.
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 100% continuous full load current per NEC 220.3, 80% rated breakers assumed.
8. Grounding conductors to be sized per NEC Article 250.122 and NEC Table 250.122. Neutral conductors to be sized per NEC Article 310.15.
 - AC Input: 3 ϕ , 3 wire + ground.
For single input feed at 480V, 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 or Owner's Manual.
12. Cable entry from bottom (100~225kVA). Cable entry from top (300~750kVA). Punch plates accordingly. (Side access possible. 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 6% typical at full load and 9% typical 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: 75 °C (167 °F). Reference Table 310-16 of NEC, 75 °C column, using copper conductors. 75 °C (167 °F) cable terminal connectors assumed.
 - C. Reference: NEC handbook 2002. 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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