

Facility Planning Data Sheet

9800AD Series 100 - 750 kVA UPS (600in/600out)

Power Rating		UPS AC Input							Battery System			AC Output			Mechanical Information				
		Voltage		kVA		Current		Minimum Input	External Overcurrent Protection	Nominal Voltage	Full Load	Maximum Discharge	Voltage	Current Nominal	External Overcurrent Protection	Dimensions W x D x H	Weight	Floor Loading	Heat Rejection
kVA	kW	Vac/ Freq.	Nom.	Max.	Nom.	Max.	AWG or kcmil	VDC		kW	A	Vac	A	Inch		Lbs	Lbs/ Ft ²	kBTU/ Hr	CFM
100	80	600 / 60Hz	93	97	90	96	1 x 1 or larger	125A	480	88	219	600	96	125A	43.3x29.5x79.7	2,090	233	42	4500
150	120	600 / 60Hz	138	145	133	143	1x 3/0 or larger	200A	480	130	325	600	144	200A	47.2x29.5x79.7	2,810	287	58	6200
225	180	600 / 60Hz	205	217	198	213	1x300 or larger	300A	480	195	486	600	217	300A	55.1x29.5x79.7	3,310	290	80	8500
300	270	600 / 60Hz	305	324	293	319	1x600 or larger	400A	480	289	720	600	289	400A	76.8 x37.4x79.7	4,980	248	108	11500
375	337.5	600 / 60Hz	381	406	367	399	2x250 or larger	500A	480	361	901	600	361	500A	76.8 x37.4x79.7	5,250	261	136	14400
500	450	600 / 60Hz	503	541	484	532	2x400 or larger	700A	480	479	1194	600	481	600A	114.2 x37.4x79.7	6,920	231	163	17200
750	675	600 / 60Hz	754	812	726	798	3x400 or larger	1000A	480	718	1792	600	722	900A	129.9x49.2x79.7	9,660	216	244	25800
Notes:					1	2	3,4,10,13,A,B,C	4,7,9	5		6,10		1	4,7,8,11	11,12,14	14	14		

Notes:

- Nominal (Nom) current based on rated load.
- Maximum (Max.) current and Maximum (Max.) kVA based on inverter rated load and nominal battery charge current.
- Input and output cables typically run in separate conduits.
- 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 assumed to be 2.0 volts/cell (lead technology).
- DC cables should be sized for not more than a 2.0 volt line drop at maximum discharge current.
- Suggested AC output overcurrent protection based on continuous full load current per CEC Rules 30-714 and 34-018. 80% rated breakers assumed.
- 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, neutral conductor required for bypass.
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.
- Static bypass input neutral conductor not required if load is 3 phase only.
- All wiring to be in accordance with all applicable national and/or local electrical codes.
- Minimum access clearance per UPS drawings or Owner's Manual.
- Cable entry from bottom (100~225kVA). Cable entry from top (300~750kVA). Punch plates accordingly. (Side access possible. Top access possible with available side mounted wire way. Consult MEPP1 for specifics.)
- Control wiring and power wiring to be run in separate conduits.
- Not includes dimension and weight of input transformer cabinet.

Additional Notes:

- 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.
 - 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.
 - For site configurations including automatic transfer switches, transfer switch to be equipped with "neutral delay position" option to minimize phase shift during operation. Transfer switch equipped with auxiliary contact for control of UPS input current when on generator recommended. Consult transfer switch manufacturer for required transfer switch options and sizing.
 - Not more than 3 conductors in raceway assumed; ambient temperature of 30 °C (86 °F) assumed.
 - Temperature rating of conductors: 75 °C (167 °F). Reference Table 310-16 of CEC, 75 °C column, using copper conductors. 75 °C (167 °F) cable terminal connectors assumed.
 - 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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