

Facility Planning Data Sheet

9900C Series 1050 kVA UPS (480in/480out)

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	Distributed Floor Loading	Point Loading	Heat Rejection	Cooling Air
		kVA	kW	Vac/Freq.	Nom.	Max.	Nom.	Max.		AWG or kcmil	VDC	kW	A	Vac		A	Inch	Lbs	Lbs/Ft ²	Lbs/Ft ²	kBTU/Hr
1050	1000	480 / 60 Hz	1050	1124	1263	1351	5x600MCM or larger	1600A	480	1053	2632	480	1263	1600A	118.2"x35.5"x80.7"	6614	227	683	127.6	6540	

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% line drop at maximum discharge current.
7. Suggested AC output overcurrent protection based on continuous full load current per NEC 210-20. 80% rated breakers assumed.
8. Grounding conductors to be sized per NEC Article 250-122 and NEC Table 250-122. Phase conductors to be sized per NEC Article 310-15.
 - AC Input: 3 ϕ , 3 wire + ground.
 - Bypass Input: 3 ϕ , 3 wire + ground.
 - AC Output: 3 ϕ , 3 wire + ground.
 - DC Input: 2 wire (Positive and Negative) + ground.
9. All wiring to be in accordance with all applicable national and/or local electrical codes.
10. Minimum access clearance per UPS drawings or Owner's Manual.
11. Control wiring and power wiring to be run in separate conduits.
12. External overcurrent protection based on nominal current + battery charge current (non-continuous).
13. 100% rated breakers assumed.

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 5% 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.
 - iii. 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.
 - 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 NEC table 310.15(B)16, 75 °C column, using copper conductors. 75 °C (167 °F) cable terminal connectors assumed.
 - C. Reference: Most recent edition of the NEC. 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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