

Facility Data Planning Guide 3400 Series

80 - 125kVA UPS (480V input, 480V output)				NOTES
Power Rating (kVA/kW)	80/80	100/100	125/125	
UPS AC INPUT (480V)				
Voltage	480 VAC	480 VAC	480 VAC	
kW (Nom./Max)	80/80	100/100	125/125	
Current (Nom./Max)	96/120	120/150	150/188	1/2
Min. Input AWG	#1	#1/0	#3/0	3, 4, 8,10, A, B, C
External Overcurrent Protection	125A	150A	200A	4, 7, 11
BATTERY SYSTEM				
Nominal Voltage	480V DC	480V DC	480V DC	5, 12
Maximum Discharge	225	300	350	6, 10
AC OUTPUT (480V)				
Current Nominal	96	120	150	1
Minimum Output AWG	#1	#1/0	#3/0	
External Overcurrent Protection	125A	150A	200A	4, 7, 11
MECHANICAL INFORMATION (UPS ONLY)				
Dimensions W x D x H	27.6" x 31.5" x 71"	27.6" x 31.5" x 71"	27.6" x 31.5" x 71"	9
Weight lbs.	880 lbs	880 lbs	880 lbs	
Floor Loading lbs./sq.in.	1.01	1.01	1.01	
Height Rejection kBTU/Hr.	10.9	13.6	17	13
Cooling Air CFM	906.35	906.35	906.35	

Notes:

1. Nominal (Nom.) current based on rated load
2. Maximum (Max.) current based on -20% 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 to future expansion.
5. Nominal battery voltage - (lead technology) (2.0 volts/ cell, cutoff 1.7 volts/cell)
6. If user provided DC cables should be sized for not more than a 2.0% line drop at maximum
7. Suggested AC output overcurrent protection based on continuous full load current per NEC 210-20.
8. All wiring to be in accordance with the applicable national and/or local electrical codes. (Conductor sizes based on 75 degrees C)
9. Minimum access clearance per UPS Owner's Manual
10. Control wiring and power wiring to be run in separate conduit.

11. Nominal output current based on matching AC input / output voltages
12. 480V DC
13. Based on 96% efficiency

Additional Notes:

- A. Ratings of cables and overcurrent devices supplied for information only. User to consult with it's engineering services before adopting.
- B. Reference NEC handbook. Consult local codes for possible variations.
- C. For site configurations including emergency generators 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% at 50% load. discharge current.

Terminal conductor range:

- 80-125
- 150-225

* Calculation based on ambient operating temperature of 25C

** Or equivalent allowable parallel conductors