

## Facility Planning Data Sheet

### 2033D Series 30 - 80 kVA UPS (480-480 / 480-208)

Power Rating		UPS AC Input (480V)						Battery System			AC Out (208V or 480V)			Mechanical Information				
		kVA		Current (A)		Minimum Input	External Overcurrent Protection	Nominal Voltage	Full Load	Maximum Discharge	Voltage	Current Nominal	External Overcurrent Protection	Dimensions	Weight	Floor Loading	Heat Rejection	Cooling Air
		Nom.	Max.	Nom.	Max.	AWG		VDC	kW	A	Vac/ Freq.	A		W x D x H (in)	Lbs	Lbs/ Ft²	kBTU/ Hr	CFM
30	24	28.5	31.2	34.3	37.5	8 or larger	50A	480	27.3	68.0	480 / 60Hz	36.1	45A	34x31.5x70.9	2040	275	8.1	860
30	24	28.5	31.2	34.3	37.5	8 or larger	50A	480	27.3	68.0	208 / 60Hz	83.3	110A	34x31.5x70.9	2040	275	8.1	860
50	40	47.0	52.0	56.5	62.5	4 or larger	80A	480	44.9	112.1	480 / 60Hz	60.1	80A	34x31.5x70.9	1810	244	13.5	1430
50	40	47.0	52.0	56.5	62.5	4 or larger	80A	480	44.9	112.1	208 / 60Hz	138.8	175A	34x31.5x70.9	1810	244	13.5	1430
80	64	74.3	83.1	89.4	100.0	1 or larger	125A	480	71.1	177.4	480 / 60Hz	96.2	125A	34x31.5x70.9	1990	269	21.6	2290
80	64	74.3	83.1	89.4	100.0	1 or larger	125A	480	71.1	177.4	208 / 60Hz	222.1	300A	34x31.5x70.9	1990	269	21.6	2290
Notes:				1	2	3,A,B,C	4,7,9,10	5		6,12		1	4,7,8,10	10,11				

#### 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 volt line drop at maximum discharge current.
7. Suggested AC output overcurrent protection based on 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  $\phi$ , 3 wire, ground.  
**For single input feed at 480V, jumper bypass and converter phase conductors.**
  - Bypass Input: 3  $\phi$ , 3 wire + ground.
  - AC Output: 3  $\phi$ , 4 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.
11. Cable entry from bottom or side. Punch plates accordingly. (*Side access possible. Consult MEAU for specifics.*)
12. 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 3% max at full load and 6% 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: 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 1999. 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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