

Facility Planning Data Sheet

2033C Series 7.5 - 50 kVA UPS (208-208 / 480-480)

Power Rating		UPS AC Input (208V or 480V)						Battery System			AC Out (208V or 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	Cooling Air CFM
		Vac/ Freq.	Nom.	Max.	Nom.	Max.													
7.5	6	208 / 60Hz	6.8	8.6	19.0	23.8	10 AWG or larger	30A	360 VDC	6.5	21.7	20.8	30A	17.7x31.5x43.3	562	145	2.2	230	
7.5	6	480 / 60Hz	7.3	9.1	8.8	10.9	14 AWG or larger	15A	360 VDC	6.7	22.4	9.0	15A	35.6x31.5x43.3	1,040	134	3.3	340	
10	8	208 / 60Hz	9.1	11.1	25.3	30.8	8 AWG or larger	40A	360 VDC	8.7	28.9	27.8	35A	17.7x31.5x43.3	562	145	2.9	300	
10	8	480 / 60Hz	9.7	11.8	11.7	14.1	12 AWG or larger	20A	360 VDC	9.0	29.8	12.0	15A	35.6x31.5x43.3	1,060	135	4.3	500	
15	12	208 / 60Hz	13.7	16.6	38.0	46.2	6 AWG or larger	60A	360 VDC	13.0	43.4	41.7	60A	17.7x31.5x43.3	816	210	4.3	460	
15	12	480 / 60Hz	14.6	17.6	17.5	21.2	10 AWG or larger	25A	360 VDC	13.4	44.7	18.0	25A	53.5x31.5x43.3	1,540	132	6.5	690	
20	16	208 / 60Hz	18.3	21.7	50.7	60.3	4 AWG or larger	75A	360 VDC	17.4	57.9	55.5	70A	17.7x31.5x43.3	816	210	5.8	600	
20	16	480 / 60Hz	19.4	23.0	23.3	27.7	8 AWG or larger	35A	360 VDC	17.9	59.6	24.1	30A	53.5x31.5x43.3	1,640	140	8.7	900	
30	24	208 / 60Hz	27.4	31.9	76.0	88.4	1 AWG or larger	110A	360 VDC	26.1	86.8	83.3	100A	23.6x31.5x59.1	1,240	240	8.7	920	
30	24	480 / 60Hz	29.1	33.8	35.0	40.7	6 AWG or larger	50A	360 VDC	26.9	89.5	36.1	50A	52.6x31.5x59.1	2,120	184	13.0	1380	
40	32	208 / 60Hz	36.5	44.4	101.4	123.2	2/0 AWG or larger	150A	360 VDC	34.8	115.7	111.0	140A	27.6 x31.5x59.1	1,082	181	11.6	1200	
40	32	480 / 60Hz	38.8	47.1	46.7	56.6	4 AWG or larger	70A	360 VDC	35.9	119.3	48.1	60A	56.6x31.5x59.1	2,100	170	17.3	1800	
50	40	208 / 60Hz	45.7	54.5	126.7	151.4	4/0 AWG or larger	190A	360 VDC	43.5	144.6	138.8	175A	27.6 x31.5x59.1	1,082	181	14.5	1530	
50	40	480 / 60Hz	48.5	57.8	58.4	69.6	3 AWG or larger	90A	360 VDC	44.8	149.1	60.1	75A	56.6x31.5x59.1	2,170	175	21.7	2300	
Notes:				1	2	3,A,B,C		4,7,9,10,11	5	6,13		1	4,7,8,11	11,12	14				

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. If user provided. 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 ϕ , 4 wire + ground. Single feed only.
Bypass and converter inputs jumpered internally.
 - AC Output: 3 ϕ , 4 wire + ground.
 - DC Input: If user supplied, 2 wire (Positive and Negative) + ground.
9. 480 System : Input neutral conductor not required if main feed is from a delta-wye input isolation transformer. Neutral derived on wye side.
10. All wiring to be in accordance with all applicable national and/or local electrical codes.
11. Minimum access clearance per UPS drawings.
12. Cable entry from bottom. Punch plates accordingly. (*Consult MEAU for alternate entry/exit points.*)
13. Control wiring and power wiring to be run in separate conduits.
14. Includes weight of internal batteries. (7.5kVA to 30kVA)

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: 90 °C (194 °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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