7011B FACILITY PLANNER

6 - 12 KVA UPS (208/120 OR 240/120)

MITSUBISHI ELECTRIC
UNINTERRUPTIBLE POWER SUPPLIES

Power Rating		UPS AC Input (208V or 240V)							Battery System		
		Voltage	kVA		Current		Minimum Input	External Overcurrent	Nominal	Full Load	Maximum
kVA	kW	Vac/ Freq.	Nom.	Max.	Nom.	Max.	AWG	Protection	Voltage	kW	Discharge
6	4.2	208/120 / 60Hz	4.7	5.8	22.4	28.0	8 AWG or larger	35A	216 VDC	4.6	26.7
6	4.2	240/120 / 60Hz	4.7	5.8	19.4	24.3	8 AWG or larger	35A	216 VDC	4.6	26.7
8	5.6	208/120 / 60Hz	6.2	7.8	29.9	37.4	8 AWG or larger	45A	216 VDC	6.2	35.6
8	5.6	240/120 / 60Hz	6.2	7.8	25.9	32.4	8 AWG or larger	45A	216 VDC	6.2	35.6
10	7	208/120 / 60Hz	7.8	9.7	37.4	46.7	6 AWG or larger	60A	216 VDC	7.7	44.5
10	7	240/120 / 60Hz	7.8	9.7	32.4	40.5	6 AWG or larger	60A	216 VDC	7.7	44.5
12	8.4	208/120 / 60Hz	9.3	11.7	44.8	56.0	4 AWG or larger	70A	216 VDC	9.2	53.4
12	8.4	240/120 / 60Hz	9.3	11.7	38.9	48.6	4 AWG or larger	70A	216 VDC	9.2	53.4
Notes:					1	2	3,9,12,A,B,C	4,7,10	5		6,12

Power Rating		AC Out (208V or 240V)		Mechanical Information				
		Current	External Overcurrent	Dimensions	Weight	Floor Loading	Heat Rejection	Cooling Air
kVA	kW	Nominal	Protection	W x D x H	Lbs	Lbs/ Ft2	kBTU/ Hr	CFM
6	4.2	28.8	35A	13.8 x 29.9 x 27.8	297.6	104	1.4	180
6	4.2	25.0	35A	13.8 x 29.9 x 27.8	297.6	104	1.4	180
8	5.6	38.5	45A	13.8 x 29.9 x 40.6	496	173	1.9	240
8	5.6	33.3	45A	13.8 x 29.9 x 40.6	496	173	1.9	240
10	7	48.1	60A	13.8 x 29.9 x 40.6	496	173	2.4	300
10	7	41.7	60A	13.8 x 29.9 x 40.6	496	173	2.4	300
12	8.4	57.7	70A	13.8 x 29.9 x 40.6	496	173	2.8	360
12	8.4	50.0	70A	13.8 x 29.9 x 40.6	496	173	2.8	360
Notes:		1	4,7,8,10	10,11	13			

ENERGY STAR PARTNER

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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% 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. Neutral conductors to be sized per NEC Article 310-15.
   - AC Input: 1 , 3 wire + ground.
   - AC Output: 1 , 3 wire + ground.
   - DC Input: If user supplied, 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. Cable entry from rear. Punch plates accordingly. (Consult MEPPI for alternate entry/exit points.)
12. Control wiring and power wiring to be run in separate conduits.
13. Includes weight of internal batteries.

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 reconmmended. Note: UPS' reflected current distortion is 5% max at full load and 7% 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 sssumed; 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 2011. 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.