



**FACILITY DATA PLANNING GUIDE
DIAMOND SERIES - 10-40kVA UPS (208V INPUT, 208V OUTPUT)**

UPS Rating		UPS Input (208V)						Battery System		AC Output (208V)			Mechanical Information (UPS Only)					
		Voltage		kW		Current		Cable Size (minimum) (includes Neutral)	External Overcurrent Protection	Nominal Voltage	Maximum Discharge Current	Nominal Current	Cable Size (minimum) (includes Neutral)	External Overcurrent Protection	Dimensions W x D x H (in)	Weight (lbs)	Floor Loading (lbs / in ²)	Heat Rejection (kBTU / hr)
kVA	kW	VAC	Nom.	Max.	Nom.	Max.	Nominal Voltage											
10	10	208	10	10	28	33	10	35	240VDC	42A/string	25	10	35	10 x 27 x 33	209	0.8	2.57	312
15	15	208	15	15	42	50	8	60	240VDC	63A/string	42	8	60	12 x 34 x 40	398	0.97	3.85	612
20	20	208	20	20	56	67	6	70	240VDC	83A/string	56	6	70	12 x 34 x 40	509	1.24	5.14	612
30	30	208	30	30	83	100	3	110	240VDC	125A/string	83	3	100	23.4x35.8x64.9	979	1.12	7.7	1224
40	40	208	40	40	111	134	*1/0	150	240VDC	167A/string	111	2	125	23.4x35.8x64.9	979	1.12	10.27	1224
<i>Notes:</i>						1	2	3,4,8,10,A,B,C	4,7,11	5,12	6,10	1	4,7,11	9				

Notes:

- Nominal (Nom.) current based on rated load
- Maximum (Max.) current based on 173V (@ 100% load) input voltage.
- Input and output cables typically run in separate conduits.
- 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.
- Nominal battery voltage - (2.0 volts/cell, cutoff 1.7 volts/cell)
- If user provided DC cables should be sized for not more than a 2.0% line drop at maximum
- AC output overcurrent protection based on continuous full load current per NEC 210-20.
- Wiring will be in accordance and applicable to the national and/or local electrical codes.
- Minimum access to unit clearance based on UPS Owners Manual.
- Control and power wiring to be separated in separate conduit.
- Nominal (normal average) output current based on matching AC input / output voltages.
- 240VDC with Neutral (10+10)

* All UPS calculations have been derived using 25 degree operating temperature

Notes:

- Consult local authorities for possible variations to the electrical codes
- User to consult with engineering services to ensure cable sizes and overcurrent protection devices

UPS Connections:

- 10kVA - M5 bolt
- 15/20kVA - M6 bolt
- 30/40kVA - M10 bolt