

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

Output power rating		UPS Input (208V)							Battery System		AC Output (208V)			Mechanical Information (UPS Only)				
kVA	kW	VAC	Nominal input power	Maximum input power	Nominal input current	Maximum input current	Min. Input wire gauge (AWG, including Neutral)	External Overcurrent Protection	Nominal Voltage	Maximum Discharge	Nominal current	Min. Input wire gauge (AWG, including Neutral)	External Overcurrent Protection	Dimensions (") W x D x H	Weight	Floor Loading	Heat Rejection	Cooling Air
10 kVA	10 kW	208 VAC	11 kW	12 kW	28 A.	33 A.	8	35 A.	240 VDC	42 ADC	28 A.	8	30 A.	10 x 27 x 33	209 lbs	0.80 lbs. / in. ²	2.57 kBTU/h	312 CFM
15 kVA	15 kW	208 VAC	16 kW	19 kW	32 A.	50 A.	6	60 A.	240 VDC	63 ADC	42 A.	6	60 A.	12 x 34 x 40	398 lbs	0.97 lbs. / in. ²	3.56 kBTU/h	612 CFM
20 kVA	20 kW	208 VAC	22 kW	25 kW	56 A.	67 A.	4	70 A.	240 VDC	83 ADC	56 A.	4	70 A.	12 x 34 x 40	509 lbs	1.24 lbs. / in. ²	4.75 kBTU/h	612 CFM
30 kVA	30 kW	208 VAC	32 kW	37 kW	83 A.	100 A.	2	110 A.	240 VDC	125 ADC	84 A.	2	100 A.	23.6x36x64.9	1036 lbs	2.51 lbs. / in. ²	7.12 kBTU/h	1,250 CFM
40 kVA	40 kW	208 VAC	43 kW	49 kW	111 A.	134 A.	*1/0	125 A.	240 VDC	169 ADC	112 A.	*1/0	125 A.	23.6x36x64.9	1180 lbs	2.51 lbs. / in. ²	9.49 kBTU/h	1,250 CFM
Notes:					1	2	3,4,8,10,A,B	4,7,11	5,12	6,10	1		4,7,11	9				

Notes:

- 1 Nominal (Nom.) current based on rated load
 - 2 Maximum (Max.) current based on 173V (@ 100% load) 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 future expansion,
 - 5 Nominal battery voltage - (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 AC output overcurrent protection based on continuous full load current per NEC 210-20,
 - 8 Wiring will be in accordance and applicable to the national and/or local electrical codes.
 - 9 Minimum access to unit clearance based on UPS Owners Manual,
 - 10 Control and power wiring to be separated in separate conduit,
 - 11 Nominal (normal average) output current based on matching AC input / output voltages,
 - 12 240VDC with Neutral (10+10),
- A Consult local authorities for possible variations to the electrical codes,
 B User to consult with engineering services to ensure cable sizes and overcurrent protection devices

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

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

