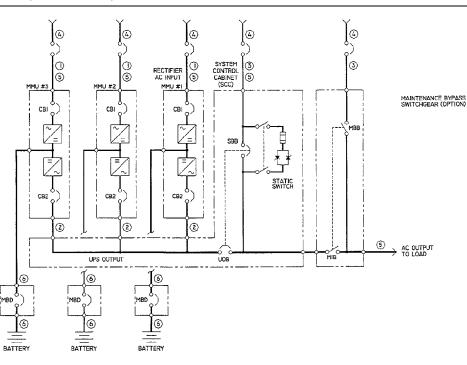
SITE PLANNING DATA, SERIES 610, 1000kVA, MULTI-MODULE SYSTEMS





Network Power

Notes for Tables 1 and 2

- 1. Nominal rectifier AC input current (considered continuous) is based on full rated (7 continued) output load. Maximum current includes nominal input current and maximum battery recharge current (considered noncontinuous). Continuous and noncontinuous current limits are defined in NEC 100. Maximum input current is controlled by current limit setting, which is adjustable. Values shown for maximum settings - 8. are 125% of nominal input current. Standard factory setting is 115%.
- Nominal AC output current (considered continuous) is based on full rated output load. Maximum current includes nominal output current and overload current for 10 minutes
- Bypass AC input current (considered continuous) is based on full rated output load. 9 3.
- Feeder protection (by others in external equipment) for rectifier AC input and 4. bypass AC input is recommended to be provided by separate overcurrent protection devices.
- UPS output load cables must be run in separate conduit from input cables. 5.
- Power cable from module DC bus to battery should be sized for a total maximum 6. 2.0 volt line drop (power cable drop plus return cable drop as measured at the module) at maximum discharge current.
- Grounding conductors to be sized per NEC 250-122. Neutral conductors to be 7. sized for full capacity—per NEC 310-15 (b)(4)—for systems with 4-wire loads and half capacity for systems with 3-wire loads.

NOTE: A neutral conductor is required from each Multi-Module Unit output to the System Control Cabinet and from each SCC to the Power-Tie[™] cabinet, if applicable. See grounding diagrams in the Installation Manual.

Rectifier AC Input: 3-phase, 3-wire, plus ground

AC Output to Load: 3-phase, 3- or 4-wire, plus ground

Bypass AC Input to SCC: 3-phase, 4-wire, plus ground (3-wire plus ground in certain circumstances)

Module DC Input from Battery: 2-wire (positive and negative), plus ground Module Input to SCC: 3-phase, 4-wire, plus ground

- All wiring is to be in accordance with National and Local Electrical Codes.
- 10. Minimum overhead clearance is 2 ft. (0.6m) above the UPS.
- 11. Top or bottom cable entry through removable access plates. Cut plate to suit conduit size.
- 12. Control wiring and power cables must be run in separate conduits. Control wiring must be stranded tinned conductors.
- 13. 4% maximum reflected input harmonic current and 0.92 lagging input power factor at full load with optional 12-pulse rectifier and optional input filter.
- 14. UPS module will be shipped in sections. Reconnect shipping splits according to drawings supplied with the equipment.
- 15. Dimensions and weights do not include the System Control Cabinet required for Multi-Module Systems.

	UPS AC Output ating Voltage Opti		Options	Rectifier AC Options Input Current		Inverter AC Output Current			Max. Battery Current		Max. Heat Dissipation	Dimensions	Approx. Weight Unpacked	Floor Loading Distributed Loading
kVA	kW	VAC	Input Filter	Nom	Max	Nom	Мах	Disconnect Rating (A)	at End of Discharge (A)	% Efficiency at Full Load	Full Load BTU/h (kWH)	WxDxH: in. (mm)	lb. (kg)	lb./ft. ² (kg/m ²)
1000	900	600	No	1096 *	1369	962	1203	2500	2440	93	231,203 (67.7)	177x44x82	16555 (7509)	306 (1494)
1000	900	600	Yes	1012 **	1265	962	1203	2500	2440	93	231,203 (67.7)	(4496x1118x2083)	17400 (7893)	322 (1572)
	See Notes (p. 1):		13	1,4,5,7,8,	,9,11,12 2,5,7,8,9,11,12		6	6,8,9,11,12	_	—	14,15	14,15	—	

Table 1 Site planning data—600V input

Nominal Input Power Factor 0.85 lagging at full load; 0.09 Maximum Total Input Harmonic Current Distortion (THD) at full load. Nominal Input Power Factor 0.92 lagging at full load; 0.04 Maximum Total Input Harmonic Current Distortion (THD) at full load.

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Table 2 Site planning data—480V input

	PS ting	AC Output Voltage	Options	Rectifi Input C		Invert Output		Required Battery	Max. Battery Current		Max. Heat Dissipation	Dimensions	Approx. Weight Unpacked	Floor Loading Distributed Loading
kVA	kW	VAC	Input Filter	Nom	Max	Nom	Max	Disconnect Rating (A)	at End of Discharge (A)	% Efficiency at Full Load	Full Load BTU/h (kWH)	WxDxH: in. (mm)	lb. (kg)	lb./ft. ² (kg/m ²)
1000	900	480	No	1369 *	1712	1203	1504	2500	2440	93	231,203 (67.7)	177x44x82	16555 (7509)	306 (1494)
1000	900	480	Yes	1265 **	1582	1203	1504	2500	2440	93	231,203 (67.7)	(4496x1118x2083)	17400 (7893)	322 (1572)
	See Notes (p. 1):		13	1,4,5,7,8,9,11,12 2,		2,5,7,8,	9,11,12	6	6,8,9,11,12	—	_	14,15	14,15	—

* Nominal Input Power Factor 0.85 lagging at full load; 9% Maximum Total Input Harmonic Current Distortion (THD) at full load.
** Nominal Input Power Factor 0.92 lagging at full load; 4% Maximum Total Input Harmonic Current Distortion (THD) at full load.

System Control Cabinets

Multi-Module Systems are provided with a System Control Cabinet. Cabinets are available to match load current. Table 3 shows dimensions and weights for SCCT cabinets.

Table 3 System Control Cabinet data - SCCT

Туре	Amps	Overall dimensions - WxDxH: in. (mm)	Weight - Ib. (kg)
SCCT	1200	37x37x78 (940x940x1981)	1000 (454)
SCCT	1600	62x48x78 (1575x1219x1981)	1525 (692)
SCCT	2000	62x48x78 (1575x1219x1981)	2850 (1293)
SCCT	2500-3000	62x60x78 (1575x1524x1981)	3100 (1406)
SCCT	4000	138x60x78 (3505x1524x1981)	5850 (2653)

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