

InfraStruXure Planning Guide

Symmetra® PX UPS 20, 40, 80kW (208V-208V/208V-120V)



		AC Input (208V)								DC Battery System				AC Output (208V)					
								Service		Vpc	Full Load	Ipc	Ipc			In	Load Side	Physical Data	
Type	Power Rating			Source		P (kW)	I (A)		Overcurrent (A)	(V)	(kW)	(A)	(A)			(A)	Breaker Size	Dimensions	Weight
Symmetr® PX	kVA	kW	Pf	V	Hz	Nom.	Nom.	Max.	Max.	Nom.	P	Dis. Nom.	Dis. Max.	V	Nom.	Protection (A)	HxWxD (mm)	Lbs	
SY20KW	20	20	1.0	208	60	20	61.3	70.9	89.4	2 x 192	21734	56.6	66.5	208	55.5/N/A	80	2070x610x902	1803	
SY40KW	40	40	1.0	208	60	40	122.0	139.5	162.2	2 x 192	43238	112.6	137.4	208	111/N/A	150	2070x600x902	1705	
SY80KW	80	80	1.0	208	60	80	243.8	274.2	321.0	2 x 192	86400	225	266	208	350/300	300	2070x1219x902	3256	
Note						1	2, 7	3, 6, 7		5	4	10	11	12, 13		14	8, 9	15	

1. Nominal (Nom.) input current based on nominal mains voltage +batteries fully charged at 200% ohmicload.
2. Maximum (Max.) input current based on full battery recharge + nominal mains voltage at 100% ohmic load.
3. Suggested input overcurrent protection based on continuous full load.
4. The battery power takes into account the DC-AC efficiency of the main inverter for linear load.
5. Nominal battery voltage assumed to be 2.0 volts/cell (lead technology).
6. Breaker selection based on Nom. input current is acceptable provided battery recharge time is short. Consult factory for application specific assistance.

7. All wiring to be in accordance with all applicable national and/or local electrical codes.
8. Minimum access clearance per UPS drawings.
9. Cable entry per installation guide.
10. The battery nominal discharge current is based on the nominal cell voltage of 2.0V/cell, thus giving a total voltage of 2x192V.
11. The battery max. discharge current is based on a cell end voltage of 1.6V/cell, thus giving a total end voltage of 2x154V.
12. The output current is based on the nominal apparent power of the UPS.
13. 80kW Single mains input 350A, Dual Mains input 350A, Bypass input 300A
14. 20kW All in one output is backed to included 42 position panel via 80A panel mounted breaker
15. Weights are for full frame population at that capacity with standard runtimes.

RATINGS OF CABLES AND OVERCURRENT DEVICES SUPPLIED FOR INFORMATION ONLY. USER TO CONSULT WITH THEIR ENGINEERING SERVICES BEFORE ADOPTING.