



REFERENCE	FRAME RATING	QTY 3P	CURRENT RATING		
T1	100A	16	22kAIC		
T3	225A	12	25kAIC		
T5	400A	SEE NOTE-11	25kAIC		
			1	J	
LEGEND:			DC CABLE – PR	OVIDED BY OTHERS	
			AC CABLE - PR	OVIDED BY OTHERS	
CODES. 2. PLEASE F 3. DRAWING REPRESED DRAWING 4. MAXIMUM 5. AC MAIN 3 WIRE+(FOR SITE 6. AC CABLI 7. AC BYPAS WYE, 4 W 3 FOR SI 8. AC CABLI 9. SINGLE M MBWD FR INSTALLAT 10. THE NEU Schneider CONFIGUF 11. MAXIMUM 4 – IF 8 – IF 12. THIS DRA XR BATTER BAYING K MOTORIZE 13. BATTERY NORMAL I INSTALLAT 14. DC CABLI	REFER TO I DEPICTS F FOR PHY RATED SH UTILITY SC SROUND (C PLANNING NG SHALL SS UTILITY IRE+GROU TE PLANNI NG SHALL AINS IS F/ AME BUS ION. FOR OR RELATI TRAL TO G CON RELATI THE NEUT THE NEUT	PRODUCT N POWER SYS PHYSICAL SICAL LAYC ORT CIRCU DURCE SHA SOURCE ST SUBMITTAI BE 600V SOURCE S SOURCE S S SOURCE S S SOURCE S S SOURCE S S SOURCE S S S S S S S S S S S S S S S S S S S	AANUALS FOR ADD TEM CONNECTIONS LAYOUT, PLEASE DUT. IT CURRENT IS 500 LL BE 480VAC, 34 5-hneider Electric IF _ DATA. RATED, 3 WIRE+GF FAULT CONFIGURA CT Schneider Elec TAL DATA. RATED, 4 WIRE+GF FAULT CONFIGURA SHALL BE REMOV INS INSTALLATION ' TAL DRAWINGS. STEM BONDING JUI BE INSTALLED FO TION MANUAL FOR BUTION BREAKERS UT IS INSTALLED DION MANUAL FOR BUTION BREAKERS UT IS NOT INSTALL M NUMBER OF BAT CD PARTY BATTERIE THIS SOLUTION. X XXIMUM 1 VOLT DF CE SHALL ADJUST RATED, 3-WIRE 4	AND IS NOT REFER TO MECHANIC kA. o, SOLIDLY GROUNDE TOTHER). SEE SHEE ROUND. 3¢, SOLIDLY GROUN tric IF OTHER). SEE ROUND. ION. THE I/O FRAM ED FOR DUAL MAINS CONTACT BY Schneid MPER PROVIDED BY R 4 WIRE OUTPUT DETAILS. (T5 OPTION ONLY)	AL D WYE, T 3 DED SHEET IE TO er (UUM (8,) UPS. IAS IG AT ON

MAX.

SHORT CIRCUIT

4 WIRE OUTPUT CONFIGURATION, DUAL MAINS

	INPUT: 480V 30 WYE, DUAL MAINS	DWG NO: SY250K250BG20	REV. J	
hneider		DRAWN:V BUSH/S CUNHA/BALA	03-JUL-15	PROJ
2 Electric	SYSTEM ONE LINE DIAGRAM	ENGINEER: C FLY/A WARNER	03-JUL-15	ANGLE
	PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 3	APPROVED: B SHERIDAN	03-JUL-15	N.A.

	Symmetra® PX 250K and 500K UPS Frame Site Planning Data - 480Y/277V Dual Feed with MBwD																					
UPS Rating				Mains AC Input - (MIB) ¹						Bypass AC Input - (BIB) ²					External Battery System ^{3, 5}					AC Output ²		
		Voltage		Current		Recommendations ³		Currents		Recommendations ^{3, 4}		4	Neminal	-	Current	Recommendations		Current				
UPS Frame	Qty of 25kW Pow er		L147			Full		100% OCPD w /Bectronic	80% OCPD w/Electronic				100% OCPD w/Electronic	80% OCPD w/Electronic		Nominal VDC	Battery kW	@ Nom. VDC				
Rating	200	kVA	kW	Input ¹	Output ²	Load	Max. ⁶	Trip	Trip	Cable	11.57/0-27	Max.7	Trip	Trip	Cable		1000		1000000000	100% Cable	1.00	Max. ⁷
2 O	4	100	100	480	480	139	149	600AF/150AT	600AF/150AT	1x 1/0	120	150	600AF/125AT	600AF/125AT	1x 1	2x 288	104	181	200A	1x 3/0	120	150
'250kW Frame	5	125	125	480	480	173	186	600AF/200AT	600AF/200AT	1x 3/0	150	188	600AF/150AT	600AF/150AT	1x 1/0	2x 288	130	226	250A	1x 4/0	150	188
250kVA/250kW 1x 250K Frame	6	150	150	480	480	208	223	600AF/225AT	600AF/225AT	1x 4/0	180	226	600AF/200AT	600AF/200AT	1x 3/0	2x 288	156	271	300A	1x 300	180	226
	8	175	175	480	480	242	261	600AF/300AT	600AF/300AT	1x 300	210	263	600AF/225AT	600AF/225AT	1x 4/0	2x 288	182	316	350A	1x 400	210	263
50k	0 9	200	200	480	480	277	298	600AF/300AT	600AF/300AT	1x 350	241	301	600AF/250AT	600AF/250AT	1x 250	2x 288	208	362	400A	1x 500	241	301
25 1x	9 10 ⁸	225 250	225 250	480 480	480 480	312 346	335 372	600AF/350AT 600AF/400AT	600AF/350AT 600AF/400AT	1 x 400 1x 500	271 301	338 376	600AF/300AT 600AF/350AT	600AF/300AT 600AF/350AT	1x 300	2x 288 2x 288	234 260	407 452	450A 500A	2x 4/0 2x 4/0	271 301	338 376
	11	275	275		480	381		600AF/450AT	600AF/450AT	2x 4/0	331		600AF/350AT	600AF/350AT	1x 400		286		500A	2x 4/0 2x 250	331	
	12	300	300	480 480	480	416	410	600AF/450AT	600AF/450AT	2x 4/0 2x 4/0	361	413	600AF/350AT	600AF/350AT	1x 400	2x 288 2x 288	312	497 543	600A	2x 250 2x 300	361	413 451
2	13	325	325	480	480	416	447	600AF/450AT	800AF/500AT	2x 4/0 2x 250	391	451	600AF/400AT	600AF/400AT	2x 3/0	2x 288	339	588	600A	2x 300 2x 350	391	451
me	14	350	350	480	480	485	521	600AF/600AT	800AF/600AT	2x 300	421	526	600AF/450AT	600AF/450AT	2x 3/0	2x 288	365	633	700A	2x 300	421	526
500kW Frame	15	375	375	480	480	519	558	600AF/600AT	800AF/600AT	2x 300	451	564	600AF/480AT	600AF/480AT	2x 4/0	2x 288	391	678	700A	2x 500	451	564
NA I	16	400	400	480	480	554	596	600AF/600AT	800AF/600AT	2x 350	481	601	600AF/500AT	800AF/500AT	2x 4/0	2x 288	417	723	800A	2x 500	481	601
500kVA/500kW 2x 250K Frame	17	425	425	480	480	589	633	800AF/640AT	800AF/640AT	2x 400	511	639	600AF/600AT	800AF/600AT	2x 300	2x 288	443	769	800A	3x 300	511	639
50 2x	18	450	450	480	480	623	670	800AF/700AT	1200AF/700AT	2x 400	541	677	600AF/600AT	800AF/600AT	2x 300	2x 288	469	814	1000A	3x400	541	677
	19	475	475	480	480	658	707	800AF/800AT	1200AF/800AT	2x 500	571	714	600AF/600AT	800AF/600AT	2x 350	2x 288	495	859	1000A	3x 400	571	714
	20 ⁸	500	500	480	480	693	745	800AF/800AT	1200AF/800AT	2x 500	601	752	800AF/640AT	800AF/640AT	2x 350	2x 288	521	904	1000A	3x 400	601	752

Symmetra® PX

Notes.

1. Mains Input source must be 480V Wye 3-wire + Ground or 4-wire+Ground. Contact Schneider Electric if other.

2. Output is either 480V Wye 3-w ire + Ground or 4-w ire + Ground. The bypass source must match the output configuration

3. Recommended cables are AWG/kcmil minimum requirement for three (3) current carrying conductors in racew ay, sized for 30°C environment and 75°C terminations. All cabling must comply with installation site conditions and any applicable Local and or National Codes.

4. See applicable submittal draw ings for additional details.

5. Contact Schneider Electric for assistance with all external battery designs. Maximum allow ed DC cabling voltage drop is 1 VDC. DC cabling between the remote battery system and the UPS must be 1000V rated. Schneider Electric Standard external DCD's are rated 500A (PX 250kVA) or 1000A (PX 500kVA).

6. Electronic Input Current Limit

7. This is the UPS short time rating of 125% Overload for 10 minutes. Actual short time performance may be limited by the overcurrent protective device selected.

8. For maximum scalability or future expansion it is recommended that the UPS frames be installed at their full ratings - see bold highlighted data

9. All OCPD's and cabling are by others.

10. OCPD = Over Current Protective Device

11. Final selections are responsibility of engineer of record based on installed conditions and SCC/selective coordination/arc-flash analysis.

