















91PS 8-15 kW UPS Site Planning Data

	Product Specifications																		
UPS Rating					P put Breaker IB)			1P+Bolted Bypass Input Bre	aker (BIB)			ter AC output MOB	Breaker	(Bati Ratings at the	tery Breaker (E end of dischar	•)	For Single Unit Maintenance Bypass Switch (MBS)
		ating	AC Input	Nominal Current	Maximum Current	Bypass AC Input		Maximum Current at 15% under voltage	Integrated Bypass Fuse	AC Output	Output	Inverter Short Circuit Current	Auxiliary Switches	Rating	-		Trip Device (Shunt Trip)	-	Rating
	kVA	kW	v	А	А	V	А	А	Туре	v	А	A / 300 ms	Qty	VDC	А	А	VDC	Qty	А
	8	8	400	12	18	230	36	41	3 x 160FEE (parallel)	230	36	156	2	500	NA	63	24	1	36
	10	10	400	15	22	230	45	51	3 x 160FEE (parallel)	230	45	156	2	500	NA	63	24	1	45
	15	15	400	23	29	230	68	77	3 x 160FEE (parallel)	230	68	156	2	500	NA	63	24	1	68

-			Minimum	recommended cab			Maximum conductor cross section		-			
UPS RATING k W	Rectifier Cable [mm²]	Rectifier Fuse [A]	Bypass, output cable [mm²]	Bypass Fuse [A]	PE Cable [mm ²]	POS. & NEG. Line [mm²]	Battery Fuse [A]		Rectifier	Bypass/Output	EX. Battery	
8	2,5	20	10	50	10	1*16	63				Solid/stranded wire: 25 mm ² ² Stranded wire with ferrule: 16 mm ²	
10	4	20	16	63	16	1*16	63		Solid/stranded wire: 16 mm ²	Solid/stranded wire: 50 mm ²		
15	10	32	25	80	16	1*16	63			-		
	8 10	UPS RATING kW [mm²] 8 2,5 10 4	UPS RATING kW[mm²]Rectifier Fuse [A]82,52010420	UPS RATING kWRectifier Cable [mm²]Rectifier Fuse [A]Bypass, output cable [mm²]82,520101042016	UPS RATING kWRectifier Cable [mm²]Rectifier Fuse [A]Bypass, output cable [mm²]Bypass Fuse [A]82,5201050104201663	UPS RATING kW [mm²] Rectifier Fuse [A] P (add add add add add add add add add ad	UPS RATING kWRectifier Cable [mm²]Rectifier Fuse [A]Bypass, output cable [mm²]Bypass Fuse [A]PE Cable [mm²]POS. & NEG. Line [mm²]82,5201050101*16104201663161*16	UPS RATING kWRectifier Cable [mm²]Rectifier Fuse [A]Bypass, output cable [mm²]Bypass Fuse [A]PE Cable [mm²]POS. & NEG. Line [mm²]Battery Fuse [A]82,5201050101*1663104201663161*1663	UPS RATING kWRectifier Cable [mm²]Rectifier Fuse [A]Bypass, output cable [mm²]Bypass Fuse [A]PE Cable [mm²]POS. & NEG. Line [mm²]Battery Fuse [A]82,5201050101*1663104201663161*1663	UPS RATING kW Rectifier Cable [mm²] Rectifier Fuse [A] Bypass, output cable [mm²] Bypass Fuse [A] PE Cable [mm²] POS. & NEG. Line [mm²] Battery Fuse [A] Rectifier 8 2,5 20 10 50 10 1*16 63 10 4 20 16 63 16 1*16 63 15 10 10 1416 63 50id/stranded wire: 16 mm² Solid/stranded wire: 16 mm²	UPS RATING kW Rectifier Cable [mm²] Rectifier Fuse [A] Bypass, output cable [mm²] Bypass Fuse [A] PE Cable [mm²] POS. & NEG. Line [mm²] Battery Fuse [A] 8 2,5 20 10 50 10 1*16 63 10 4 20 16 63 16 1*16 63 15 10 16 0 16 16 1*16 63	UPS RATING kW Rectifier Cable [mm²] Rectifier Fuse [A] Bypass, output cable [mm²] Bypass Fuse [A] PE Cable [mm²] POS. & NEG. Line [mm²] Battery Fuse [A] 8 2,5 20 10 50 10 1*16 63 10 4 20 16 63 16 1*16 63 15 10 10 16 16 1*16 63

Notes:

Rectifier AC input current calculations: Nominal - 100% load without charging; Maximum - 100% load with maximum charging (Rectifier current limit).
 Inverter AC output current calculation: At 100% rated output load.
 The system must be installed on a level floor suitable for computer or electronic equipment.
 All wiring and installations must be in accordance with applicable National and Local Electric Regulations.

5. Rectifier AC input to UPS: (3) phases and (1) ground.

4

Bypass AC input to UPS: (1) phase, (1) neutral, (1) ground.

AC output to load: (1) phase, (1) neutral, (1) ground.
DC input from battery to UPS: (1) positive, (1) negative, (1) ground.
6. All breakers should be adjusted according to the specified Ampere values to protect the UPS and installed. 7. For UPS installation that utilizes single feed input, The input breaker should be configured according to

8. Cable sizing is based on the standard IEC 60364-5-52 and IEC 60364-5-54. The sizing is for 70°C rated

9. Specifications are subject to change.

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