



- Notes:
- 1) UPS ships with Inputs 1 and 2 jumpered for single input use. Remove jumpers for dual input applications..
 - 2) Internal or external batterieis are available.
 - 3) Battery connections consist of +, - and N (center tap).
 - 4) Maximum of 4 power modules for may be used in the UPS. All modules power ratings must be the same. Both 15kVA and 20kVA modules may not be used in the same UPS cabinet at the same time.
 - 5) Optional external battery system. Consult with factory to confirm if internal batteries can be used with external battery system.

X-TREME	PROJECT M90U-80			REV 0	
	TITLE M90U-80 One-Line Diagram				
APPROVED	SIZE	CODE	DWG NO	M90U-80-OND-208-208	
CHECKED	A				
DRAWN	JB	10/18/2021	SCALE 1:1	WEIGHT	SHEET 1/2



UPS Rating	kVA	15	20	30	40	45	60	80	90	100	105	120	140
	kW	15	20	30	40	45	60	80	90	100	105	120	140
Voltage	Input	208	208	208	208	208	208	208	208	208	208	208	208
	Output	208	208	208	208	208	208	208	208	208	208	208	208
AC Rectifier Input (A)	Nom	45	60	91	121	136	181	242	272	302	317	362	423
	Max	51	66	102	132	153	199	265	307	331	358	397	463
	Rec OCPD	60	75	125	175	175	250	350	350	400	400	500	600
AC Bypass Input (A)	Nom	42	56	83	111	125	167	167	252	280	294	336	392
	Max	42	56	83	111	125	167	223	252	280	294	336	392
	Rec OCPD	60	70	125	150	175	225	300	350	350	400	450	500
Battery	Nominal VDC	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120	+/- 120
	Max DC Current	82	109	163	218	245	327	436	490	545	572	654	763
AC Output (A)	Nom	42	56	83	111	125	167	223	252	280	294	336	392
	Rec OCPD	60	70	125	150	175	225	300	350	350	400	450	500
Notes:													

1) Manufacturer recommends sizing all cables and overcurrent protection for maximum kVA of the UPS cabinet being installed to allow for future expansion.

2) UPS must be installed in accordance with all local, state and national electrical codes.

3) An input neutral connection is required for this UPS.

4) Neutral conductors are considered current carrying conductors. Refer to NFPA 70 tables and notes for neutral conductors.

5) Ground conductor to be sized per NFPA 70 250.66.

6) Max currents are based on nominal current plus max battery charge current and are not considered continuous per NEC code.

	PROJECT M90U-80			
	TITLE M90U-80 One-Line			
APPROVED	SIZE	CODE	DWG NO	REV
CHECKED	A		M90U-140-OND-208-208	0
DRAWN	10/18/2021	SCALE 1:1	WEIGHT	SHEET 2/2

