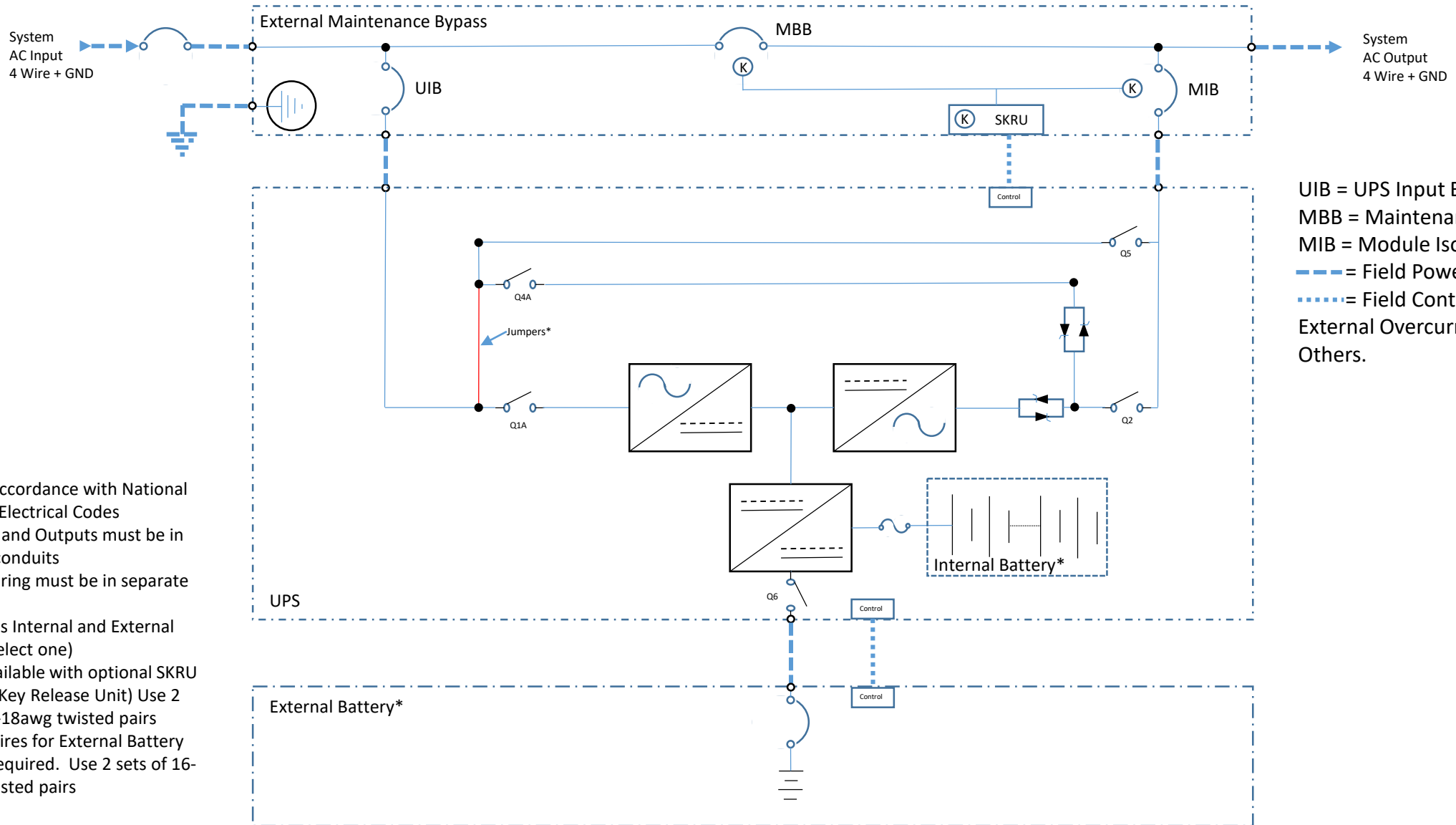


Site Planning Guide – STACO ENERGY – PLT Series UPS: 10-60kVA/kW, 60Hz, 208/120v Single Input



UIB = UPS Input Breaker
 MBB = Maintenance Bypass Breaker
 MIB = Module Isolation Breaker
 — = Field Power Wiring by others
 = Field Control Wiring by others
 External Overcurrent protection by Others.

Notes:

1. Install in accordance with National and Local Electrical Codes
2. UPS Input and Outputs must be in separate conduits
3. Control wiring must be in separate conduits
4. Dwg shows Internal and External Battery (select one)
5. MBS is available with optional SKRU (Solenoid Key Release Unit) Use 2 sets of 16-18awg twisted pairs
6. Control Wires for External Battery Cabinet Required. Use 2 sets of 16-18awg twisted pairs

STACO ENERGY - PLT SERIES 10-60kVA, SINGLE MODULE SITE PLANNING GUIDE

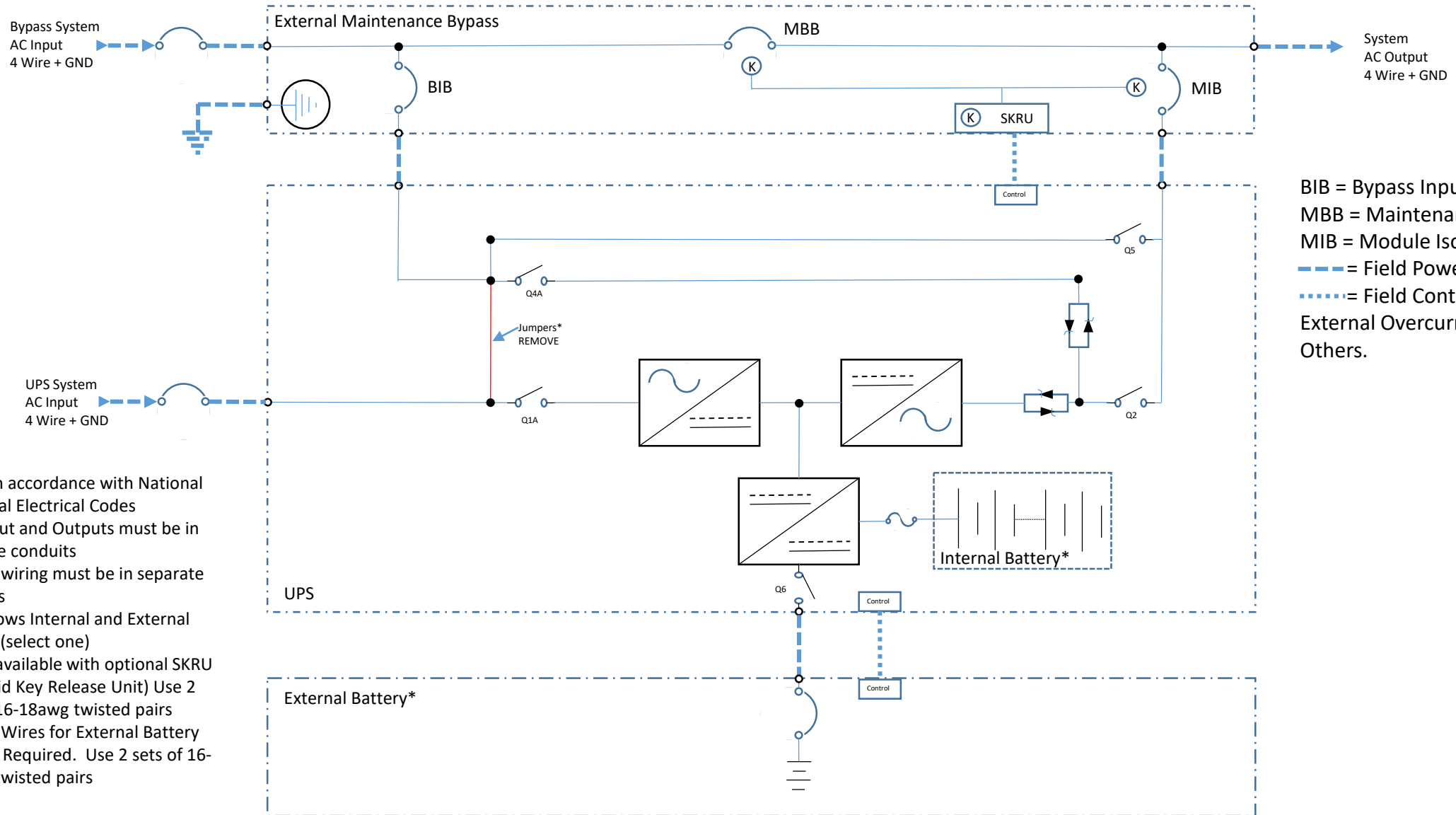
Site Planning Data – 10-60kVA 208/120v Input; 208/120v Output – Single Input

UPS Output Rating		Voltage		AC Input Rectifier Current in Amps			Bypass Input (Disregard with Single Input UPS)		AC Output Current		Battery		Max Heat Dissipation	Dimensions	Inverter Efficiencies
kVA	kW	Input	Output	Nom.	Max	External Breaker Trip	Nom	External Breaker Trip	Nom	External Breaker Trip	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100%
10	9	208/120	208/120	27	33	40	28	35	28	35	432	26	2,400	23.13x 34.47x72.41 (588x876x1839)	94%
15	13.5	208/120	208/120	41	49	60	42	60	42	60	432	39	3,500	23.13x 34.47x72.41 (588x876x1839)	94%
20	18	208/120	208/120	54	65	80	56	70	56	70	432	53	4,700	23.13x 34.47x72.41 (588x876x1839)	94%
30	27	208/120	208/120	81	98	135	84	110	84	110	432	79	7,000	23.13x 34.47x72.41 (588x876x1839)	94%
40	36	208/120	208/120	109	131	175	111	150	111	150	432	106	9,300	23.13x 34.47x72.41 (588x876x1839)	94%
50	45	208/120	208/120	143	172	225	139	175	139	175	432	133	21,000	34.25x34.34x76.79 (870x872x1950)	94%
60	54	208/120	208/120	167	200	250	167	225	167	225	432	159	18,300	34.25x34.34x76.79 (870x872x1950)	94%

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current (125% of nominal) is short duration for battery recharge conditions
- UPS input and bypass cable must be run in separate conduit from output cables.
- Nominal battery voltage is shown at 2.0 volts/cell per NEC 480-2.
- Nominal rectifier AC input current (considered continuous) is based on full rated output load. Maximum current includes nominal input current and maximum battery recharge current (considered non-continuous)
- Minimum-sized grounding conductors to be per NEC 250-122. Parity-sized ground conductors are recommended. Neutral conductors to be sized for full capacity per NEC310-15 (b)(4)
- Wiring requirements: AC Input: 3-phase, 4-wire, plus ground. AC Output: 3-phase, 3 or 4 –wire, plus ground.
- All wiring is to be in accordance with National and Local Electric codes.
- Minimum access clearance is 36" (914MM) front; ventilation clearance is 24" (610mm) above and 8" (203mm) rear.
- Control wiring and power wiring must be run in separate conduit. Use 16-18awg twisted pair.
- Power cables from UPS Module DC bus to battery should be sized for a total maximum of 2.0 volt line drop (voltage drop from UPS plus return voltage drop as measured back at the module) at maximum discharge current.
- If the UPS is to be fed from an ATS, the transfer time should be delayed by 100-200ms for transfers between two sources.

Site Planning Guide – STACO ENERGY – PLT Series UPS: 10-60kVA/kW, 60Hz, 208/120v Dual Input



Notes:

1. Install in accordance with National and Local Electrical Codes
2. UPS Input and Outputs must be in separate conduits
3. Control wiring must be in separate conduits
4. Dwg shows Internal and External Battery (select one)
5. MBS is available with optional SKRU (Solenoid Key Release Unit) Use 2 sets of 16-18awg twisted pairs
6. Control Wires for External Battery Cabinet Required. Use 2 sets of 16-18awg twisted pairs

STACO ENERGY - PLT SERIES 10-60kVA, SINGLE MODULE SITE PLANNING GUIDE

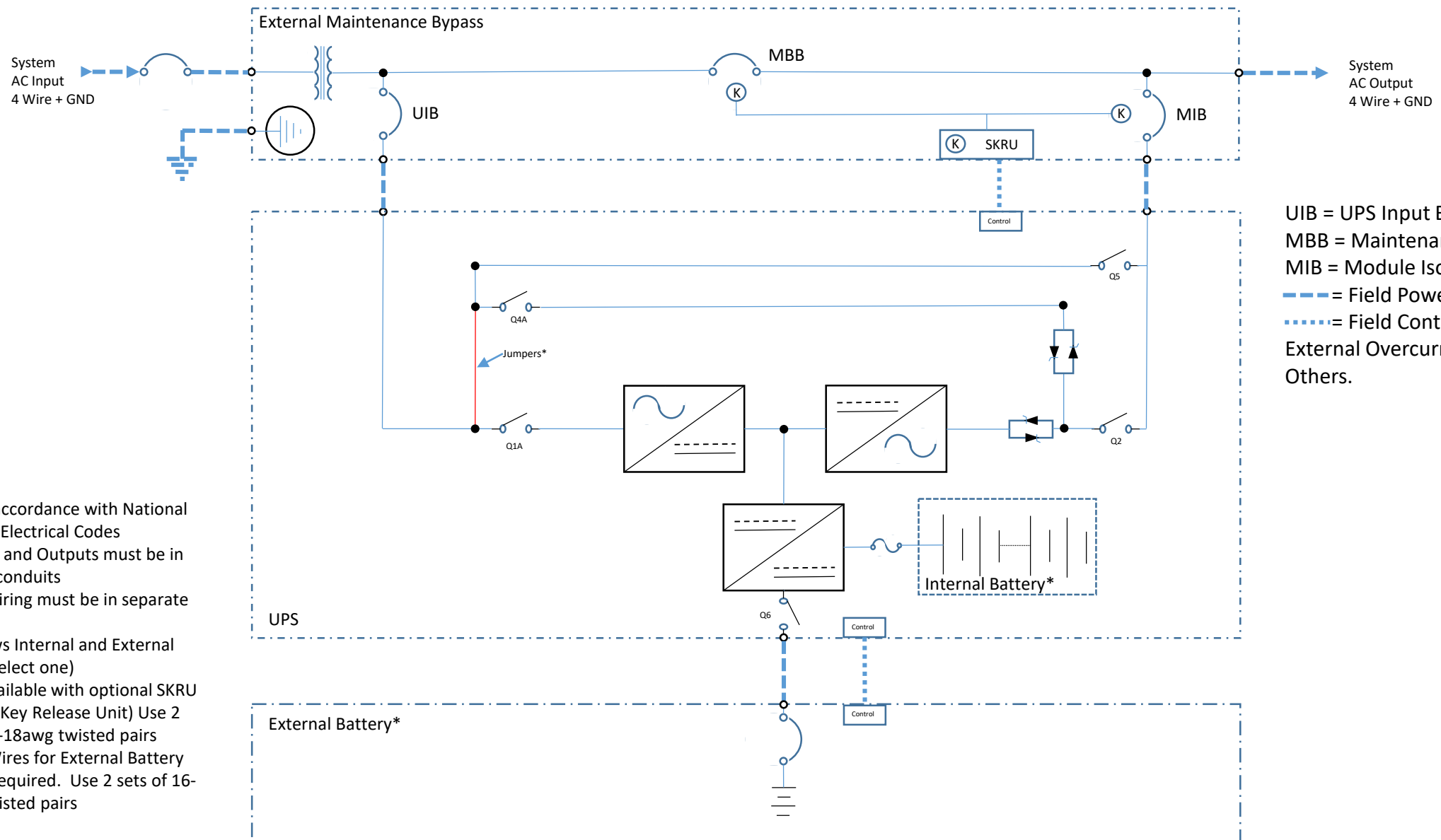
Site Planning Data – 10-60kVA 208/120v Input; 208/120v Output – Dual Input

UPS Output Rating		Voltage		AC Input Rectifier Current in Amps			Bypass Input		AC Output Current		Battery		Max Heat Dissipation	Dimensions	Inverter Efficiencies
kVA	kW	Input	Output	Nom.	Max	External Breaker Trip	Nom	External Breaker Trip	Nom	External Breaker Trip	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100%
10	9	208/120	208/120	27	33	40	28	35	28	35	432	26	2,400	23.13x 34.47x72.41 (588x876x1839)	94%
15	13.5	208/120	208/120	41	49	60	42	60	42	60	432	39	3,500	23.13x 34.47x72.41 (588x876x1839)	94%
20	18	208/120	208/120	54	65	80	56	70	56	70	432	53	4,700	23.13x 34.47x72.41 (588x876x1839)	94%
30	27	208/120	208/120	81	98	135	84	110	84	110	432	79	7,000	23.13x 34.47x72.41 (588x876x1839)	94%
40	36	208/120	208/120	109	131	175	111	150	111	150	432	106	9,300	23.13x 34.47x72.41 (588x876x1839)	94%
50	45	208/120	208/120	143	172	225	139	175	139	175	432	133	21,000	34.25x34.34x76.79 (870x872x1950)	94%
60	54	208/120	208/120	167	200	250	167	225	167	225	432	159	18,300	34.25x34.34x76.79 (870x872x1950)	94%

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current (125% of nominal) is short duration for battery recharge conditions
- UPS input and bypass cable must be run in separate conduit from output cables.
- Nominal battery voltage is shown at 2.0 volts/cell per NEC 480-2.
- Nominal rectifier AC input current (considered continuous) is based on full rated output load. Maximum current includes nominal input current and maximum battery recharge current (considered non-continuous)
- Minimum-sized grounding conductors to be per NEC 250-122. Parity-sized ground conductors are recommended. Neutral conductors to be sized for full capacity per NEC310-15 (b)(4)
- Wiring requirements: AC Input: 3-phase, 4-wire, plus ground. AC Output: 3-phase, 3 or 4 –wire, plus ground.
- All wiring is to be in accordance with National and Local Electric codes.
- Minimum access clearance is 36" (914MM) front; ventilation clearance is 24" (610mm) above and 8" (203mm) rear.
- Control wiring and power wiring must be run in separate conduit. Use 16-18 awg twisted pairs.
- Power cables from UPS Module DC bus to battery should be sized for a total maximum of 2.0 volt line drop (voltage drop from UPS plus return voltage drop as measured back at the module) at maximum discharge current.
- If the UPS is to be fed from an ATS, the transfer time should be delayed by 100-200ms for transfers between two sources.

Site Planning Guide – STACO ENERGY – PLT Series UPS: 10-60kVA/kW, 60Hz, 208 or 480v / 208/120v Output - Single Input



Notes:

1. Install in accordance with National and Local Electrical Codes
2. UPS Input and Outputs must be in separate conduits
3. Control wiring must be in separate conduits
4. Dwg shows Internal and External Battery (select one)
5. MBS is available with optional SKRU (Solenoid Key Release Unit) Use 2 sets of 16-18awg twisted pairs
6. Control Wires for External Battery Cabinet Required. Use 2 sets of 16-18awg twisted pairs

STACO ENERGY - PLT SERIES 10-60kVA, SINGLE MODULE SITE PLANNING GUIDE

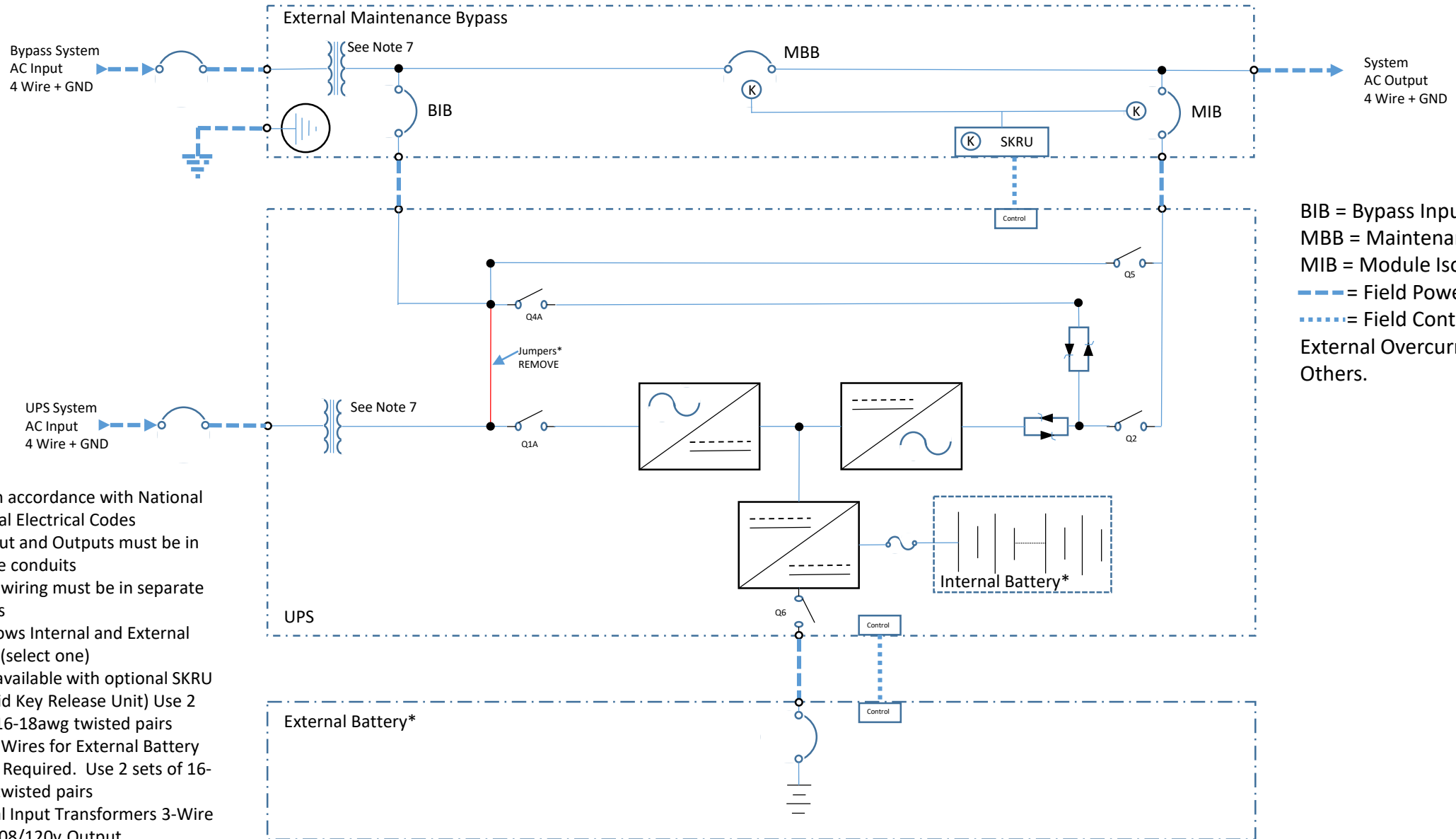
Site Planning Data – 10-60kVA 208v or 480v Input; 208/120v Output – Single Input

UPS Output Rating		Voltage		AC Input Rectifier Current in Amps			Bypass Input (Disregard with Single Input UPS)		AC Output Current		Battery		Max Heat Dissipation	Dimensions	Inverter Efficiencies
kVA	kW	Input (xfmr)	Output	Nom.	Max	External Breaker Trip	Nom	External Breaker Trip	Nom	External Breaker Trip	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100%
10	9	208 480	208/120	28 12	34 14	45 20	28	35	28	35	432	26	3,200	23.13x 34.47x72.41 (588x876x1839)	94%
15	13.5	208 480	208/120	42 18	50 22	70 30	42	60	42	60	432	39	4,800	23.13x 34.47x72.41 (588x876x1839)	94%
20	18	208 480	208/120	56 24	67 29	90 35	56	70	56	70	432	53	6,400	23.13x 34.47x72.41 (588x876x1839)	94%
30	27	208 480	208/120	84 36	100 43	125 60	84	110	84	110	432	79	9,500	23.13x 34.47x72.41 (588x876x1839)	94%
40	36	208 480	208/120	111 48	134 58	175 70	111	150	111	150	432	106	12,700	23.13x 34.47x72.41 (588x876x1839)	94%
50	45	208 480	208/120	147 64	177 77	225 100	139	175	139	175	432	133	25,500	34.25x34.34x76.79 (870x872x1950)	94%
60	54	208 480	208/120	171 74	205 89	250 110	167	225	167	225	432	159	23,500	34.25x34.34x76.79 (870x872x1950)	94%

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current (125% of nominal) is short duration for battery recharge conditions
- UPS input and bypass cable must be run in separate conduit from output cables.
- Nominal battery voltage is shown at 2.0 volts/cell per NEC 480-2.
- Nominal rectifier AC input current (considered continuous) is based on full rated output load. Maximum current includes nominal input current and maximum battery recharge current (considered non-continuous)
- Minimum-sized grounding conductors to be per NEC 250-122. Parity-sized ground conductors are recommended. Neutral conductors to be sized for full capacity per NEC310-15 (b)(4)
- Wiring requirements: AC Input: 3-phase, 4-wire, plus ground. AC Output: 3-phase, 3 or 4 –wire, plus ground.
- All wiring is to be in accordance with National and Local Electric codes.
- Minimum access clearance is 36" (914MM) front; ventilation clearance is 24" (610mm) above and 8" (203mm) rear.
- Control wiring and power wiring must be run in separate conduit.
- Power cables from UPS Module DC bus to battery should be sized for a total maximum of 2.0 volt line drop (voltage drop from UPS plus return voltage drop as measured back at the module) at maximum discharge current.
- If the UPS is to be fed from an ATS, the transfer time should be delayed by 100-200ms for transfers between two sources.

Site Planning Guide – STACO ENERGY – PLT Series UPS: 10-60kVA/kW, 60Hz, 208 or 480v Dual Input -208/120v Output



BIB = Bypass Input Breaker
MBB = Maintenance Bypass Breaker
MIB = Module Isolation Breaker
 - - - = Field Power Wiring by others
 = Field Control Wiring by others
 External Overcurrent protection by Others.

Notes:

1. Install in accordance with National and Local Electrical Codes
2. UPS Input and Outputs must be in separate conduits
3. Control wiring must be in separate conduits
4. Dwg shows Internal and External Battery (select one)
5. MBS is available with optional SKRU (Solenoid Key Release Unit) Use 2 sets of 16-18awg twisted pairs
6. Control Wires for External Battery Cabinet Required. Use 2 sets of 16-18awg twisted pairs
7. Optional Input Transformers 3-Wire input, 208/120v Output

STACO ENERGY - PLT SERIES 10-60kVA, SINGLE MODULE SITE PLANNING GUIDE

Site Planning Data – 10-60kVA 480v Dual Input; 208/120v Output

UPS Output Rating		Voltage		AC Input Rectifier Current in Amps			Bypass Input		AC Output Current		Battery		Max Heat Dissipation	Dimensions	Inverter Efficiencies
kVA	kW	Input (xfmr)	Output	Nom.	Max	External Breaker Trip	Nom	External Breaker Trip	Nom	External Breaker Trip	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100%
10	9	480	208/120	12	14	20	12	20	28	35	432	26	3,200	23.13x 34.47x72.41 (588x876x1839)	94%
15	13.5	480	208/120	18	22	30	18	25	42	60	432	39	4,800	23.13x 34.47x72.41 (588x876x1839)	94%
20	18	480	208/120	24	29	35	25	35	56	70	432	53	6,400	23.13x 34.47x72.41 (588x876x1839)	94%
30	27	480	208/120	36	43	60	37	50	84	110	432	79	9,500	23.13x 34.47x72.41 (588x876x1839)	94%
40	36	480	208/120	48	58	70	49	70	111	150	432	106	12,700	23.13x 34.47x72.41 (588x876x1839)	94%
50	45	480	208/120	64	77	100	62	80	139	175	432	133	25,500	34.25x34.34x76.79 (870x872x1950)	94%
60	54	480	208/120	74	89	110	74	100	167	225	432	159	23,500	34.25x34.34x76.79 (870x872x1950)	94%

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current (125% of nominal) is short duration for battery recharge conditions
- UPS input and bypass cable must be run in separate conduit from output cables.
- Nominal battery voltage is shown at 2.0 volts/cell per NEC 480-2.
- Nominal rectifier AC input current (considered continuous) is based on full rated output load. Maximum current includes nominal input current and maximum battery recharge current (considered non-continuous)
- Minimum-sized grounding conductors to be per NEC 250-122. Parity-sized ground conductors are recommended. Neutral conductors to be sized for full capacity per NEC310-15 (b)(4)
- Wiring requirements: AC Input: 3-phase, 4-wire, plus ground. AC Output: 3-phase, 3 or 4 –wire, plus ground.
- All wiring is to be in accordance with National and Local Electric codes.
- Minimum access clearance is 36" (914MM) front; ventilation clearance is 24" (610mm) above and 8" (203mm) rear.
- Control wiring and power wiring must be run in separate conduit.
- Power cables from UPS Module DC bus to battery should be sized for a total maximum of 2.0 volt line drop (voltage drop from UPS plus return voltage drop as measured back at the module) at maximum discharge current.
- If the UPS is to be fed from an ATS, the transfer time should be delayed by 100-200ms for transfers between two sources.