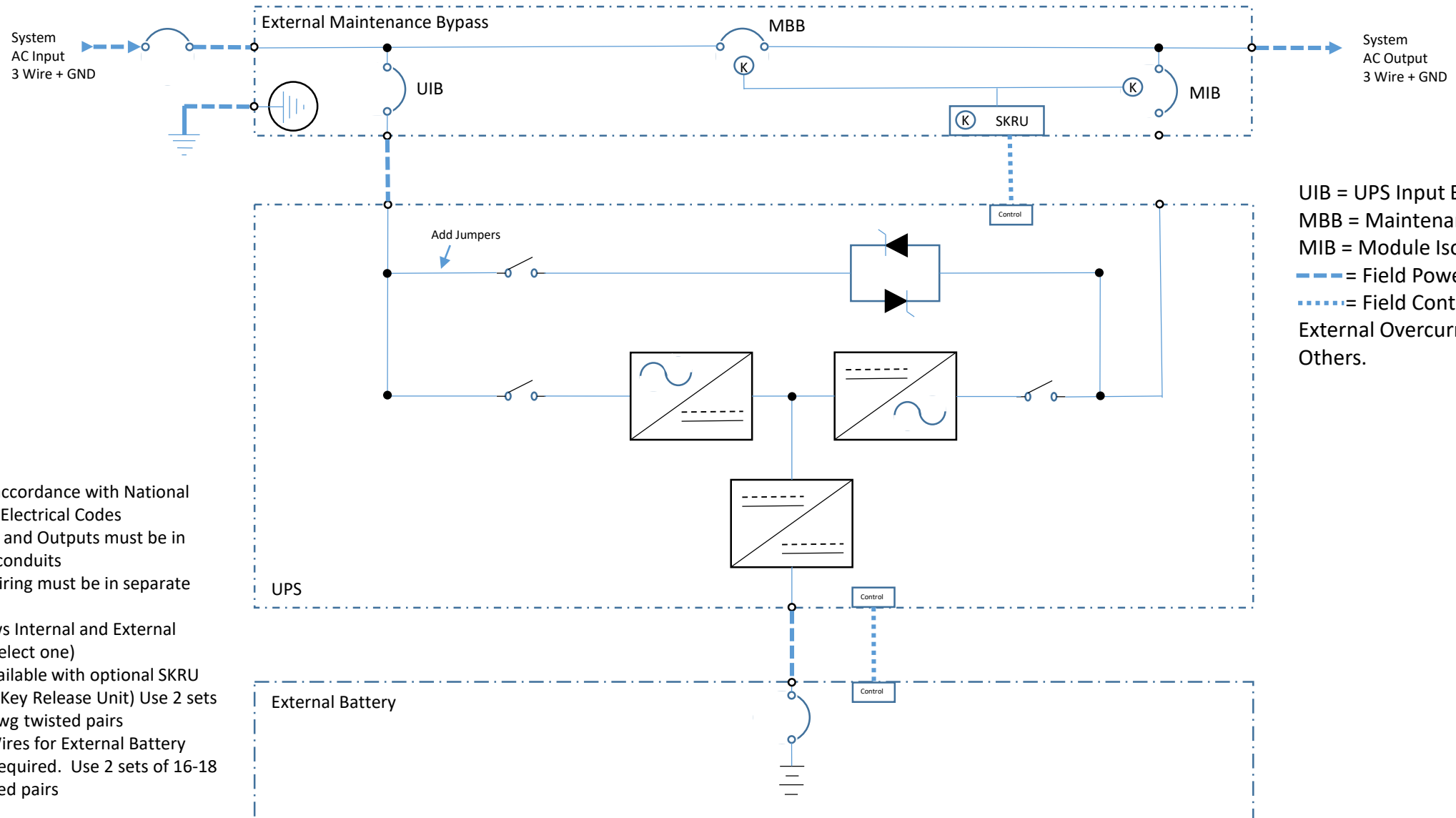


Site Planning Guide – STACO ENERGY – P_E Series UPS: 50-200kVA/kW, 60Hz, 480v Single Input, 480v Output



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 16-18 awg twisted pairs

STACO ENERGY - P_E SERIES 50-200kVA, SINGLE MODULE SITE PLANNING GUIDE

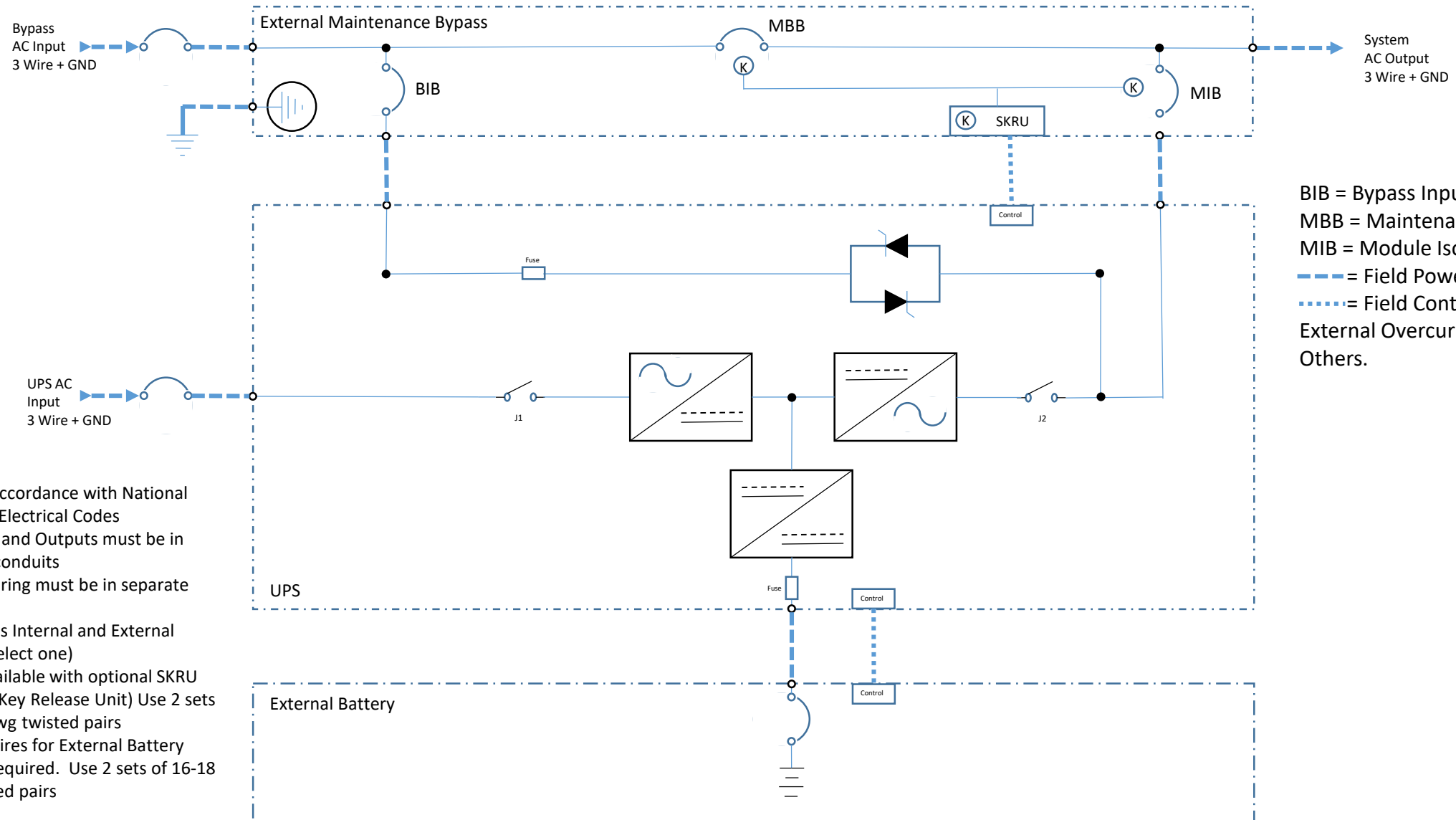
Site Planning Data – 50-200kVA 480v Input - 480v Output – Single Input

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%
50	50	480v	480v	62	73	90	60	80	60	80	480	131	9,067	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	94.8
65	65	480v	480v	81	94	125	78	100	78	100	480	171	11,027	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.2
80	80	480v	480v	100	112	150	96	125	96	125	480	210	11,847	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.8
100	100	480v	480v	125	145	200	120	145	120	145	480	262	12,977	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.1
125	125	480v	480v	156	182	250	150	200	150	200	480	328	17,075	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	97.4
160	160	480v	480v	199	224	300	192	250	192	250	480	415	19,466	31.5 x 31.5 x 70.87 (800 x 800 x 1800)	96.2
200	200	480v	480v	250	280	350	241	300	241	300	480	518	22,198	31.5 x 31.5 x 70.87 (800 x 800 x 1800)	96.0

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current 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, 3-wire, plus ground. AC Output: 3-phase, 3 –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 2" (51mm) 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 – P_E Series UPS: 50-200kVA/kW, 60Hz, 480v 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 16-18 awg twisted pairs

STACO ENERGY - P_E SERIES 50-200kVA, SINGLE MODULE SITE PLANNING GUIDE

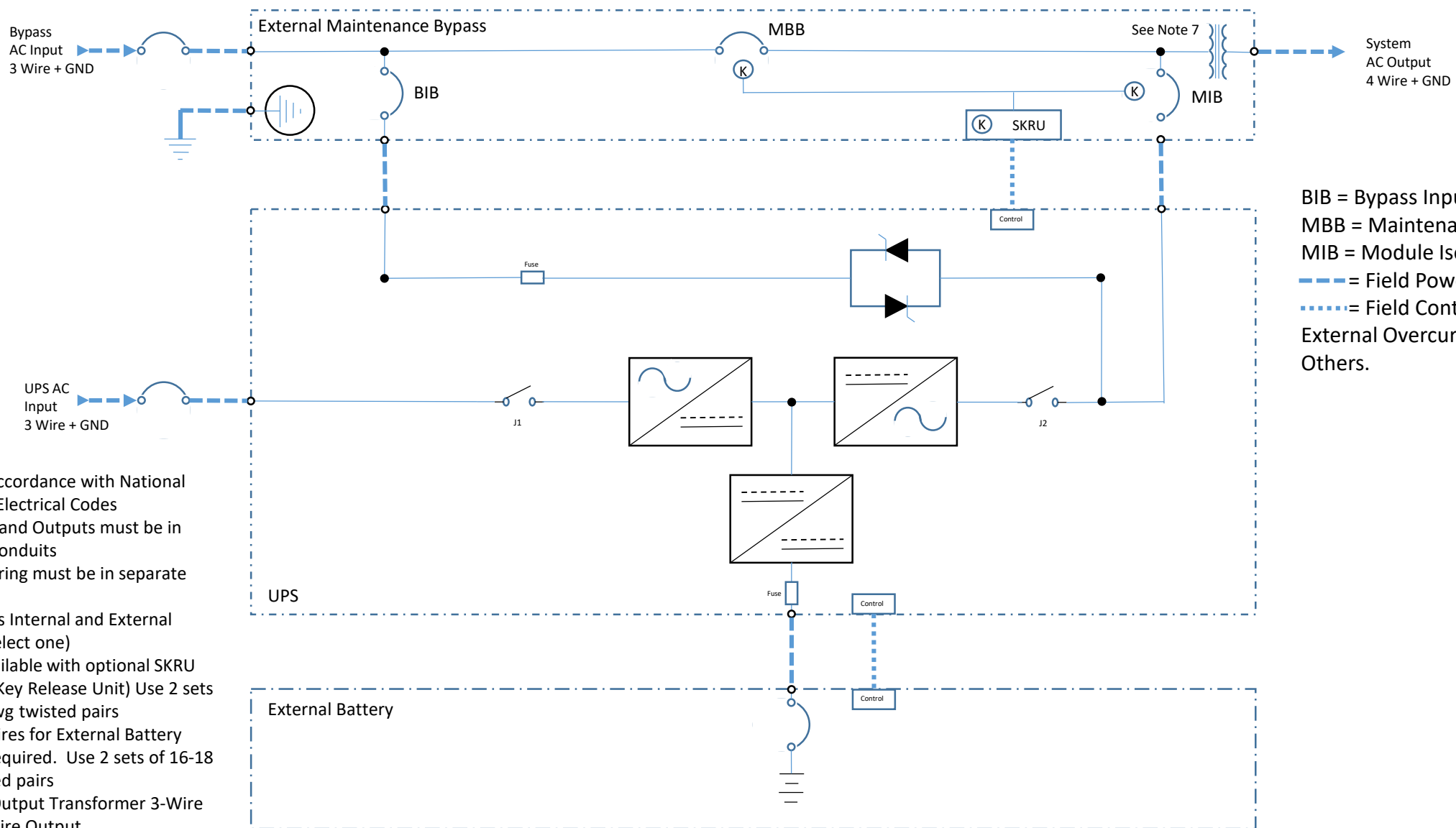
Site Planning Data – 50-200kVA 480v Dual Input; 480v Output

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	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%
50	50	480v	480v	62	73	90	60	80	60	80	480	131	9,067	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	94.8
65	65	480v	480v	81	94	125	78	100	78	100	480	171	11,027	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.2
80	80	480v	480v	100	112	150	96	125	96	125	480	210	11,847	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.8
100	100	480v	480v	125	145	200	120	175	120	175	480	262	12,977	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.1
125	125	480v	480v	156	182	250	150	200	150	200	480	328	17,075	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	97.4
160	160	480v	480v	199	224	300	192	250	192	250	480	415	19,466	31.5 x 31.5 x 70.87 (800 x 800 x 1800)	96.2
200	200	480v	480v	250	280	350	241	300	241	300	480	518	22,198	31.5 x 31.5 x 70.87 (800 x 800 x 1800)	96.0

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current 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, 3-wire, plus ground. AC Output: 3-phase, 3 –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 2" (51mm) 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 – P_E Series UPS: 50-200kVA/kW, 60Hz, Dual Input, 480v - 208/120v Output



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 16-18 awg twisted pairs
7. Optional Output Transformer 3-Wire input, 4-Wire Output

STACO ENERGY - P_E SERIES 50-200kVA, SINGLE MODULE SITE PLANNING GUIDE

Site Planning Data – 50-200kVA 480v Dual Input; 208/120v Output

UPS Output Rating		Voltage		AC Input Rectifier Current in Amps			Bypass Input		UPS AC Output Current	MBS AC Output Current	Battery		Max Heat Dissipation	Dimensions	Inverter Efficiencies
kVA	kW	Input	Output (xfmr)	Nom.	Max	External Breaker Trip	Nom	External Breaker Trip	Nom 480v	Nom 208/120v	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100%
50	50	480v	208/120v	62	73	90	60	80	60	139	480	131	9,067	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	94.8
65	65	480v	208/120v	81	94	125	78	100	78	181	480	171	11,027	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.2
80	80	480v	208/120v	100	112	150	96	125	96	222	480	210	11,847	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.8
100	100	480v	208/120v	125	145	200	120	150	120	278	480	262	12,977	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	95.1
125	125	480v	208/120v	156	182	250	150	200	150	347	480	328	17,075	27.56 x 31.50 x 70.87 (700 x 800 x 1800)	97.4
160	160	480v	208/120v	199	224	300	192	250	192	445	480	415	19,466	31.5 x 31.5 x 70.87 (800 x 800 x 1800)	96.2
200	200	480v	208/120v	250	280	350	241	300	241	556	480	518	22,198	31.5 x 31.5 x 70.87 (800 x 800 x 1800)	96.0

Notes:

- Nominal (Nom) current is based on full rated output load at nominal input voltage.
- Maximum (Max) current 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, 3-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 2" (51mm) 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.