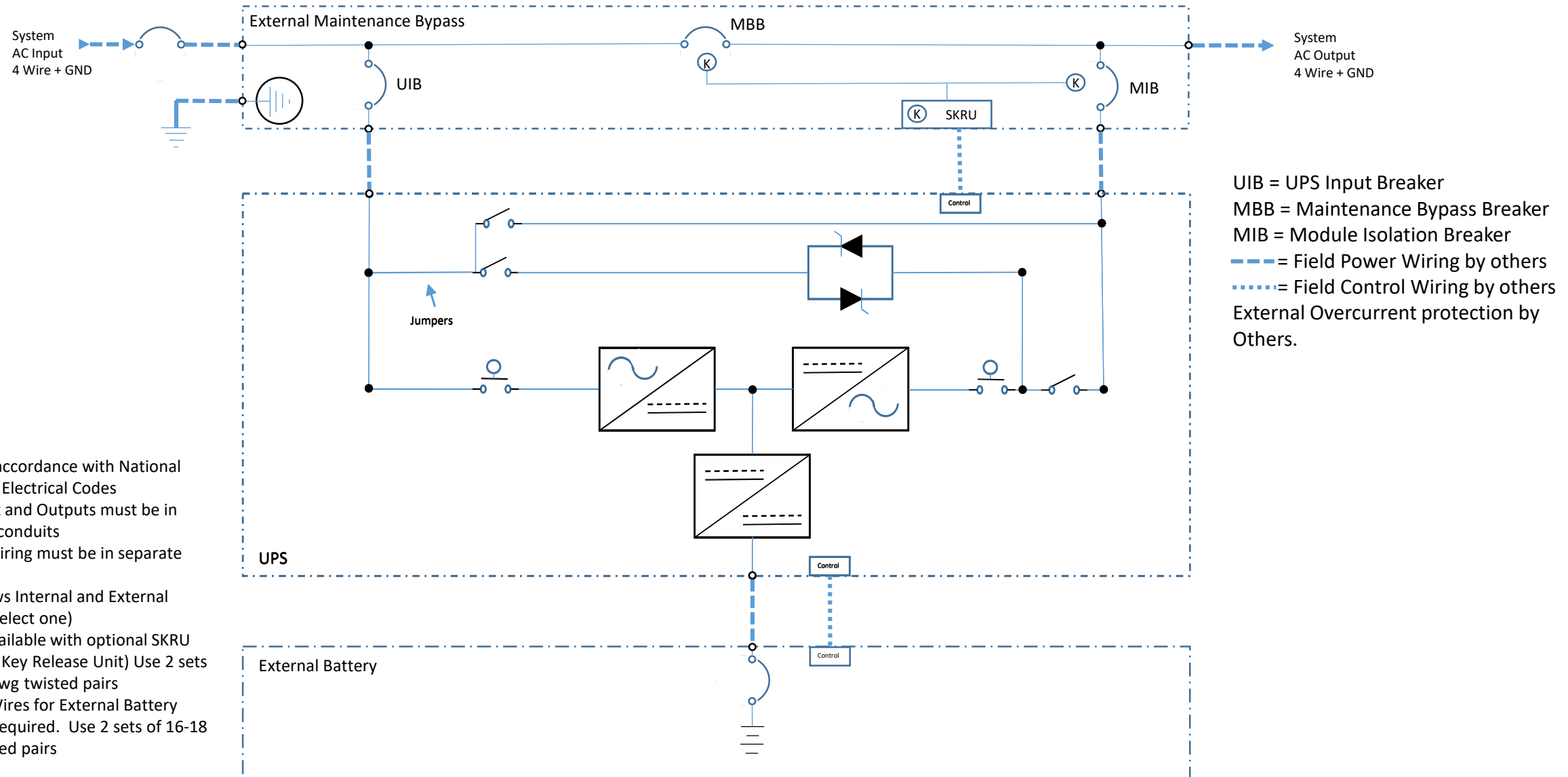


Site Planning Guide – STACO ENERGY – P Series UPS: 300-500kVA/kW, 60Hz, 480/277v Single Input, 480/277v Output



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 SERIES 300-500kVA, SINGLE MODULE SITE PLANNING GUIDE

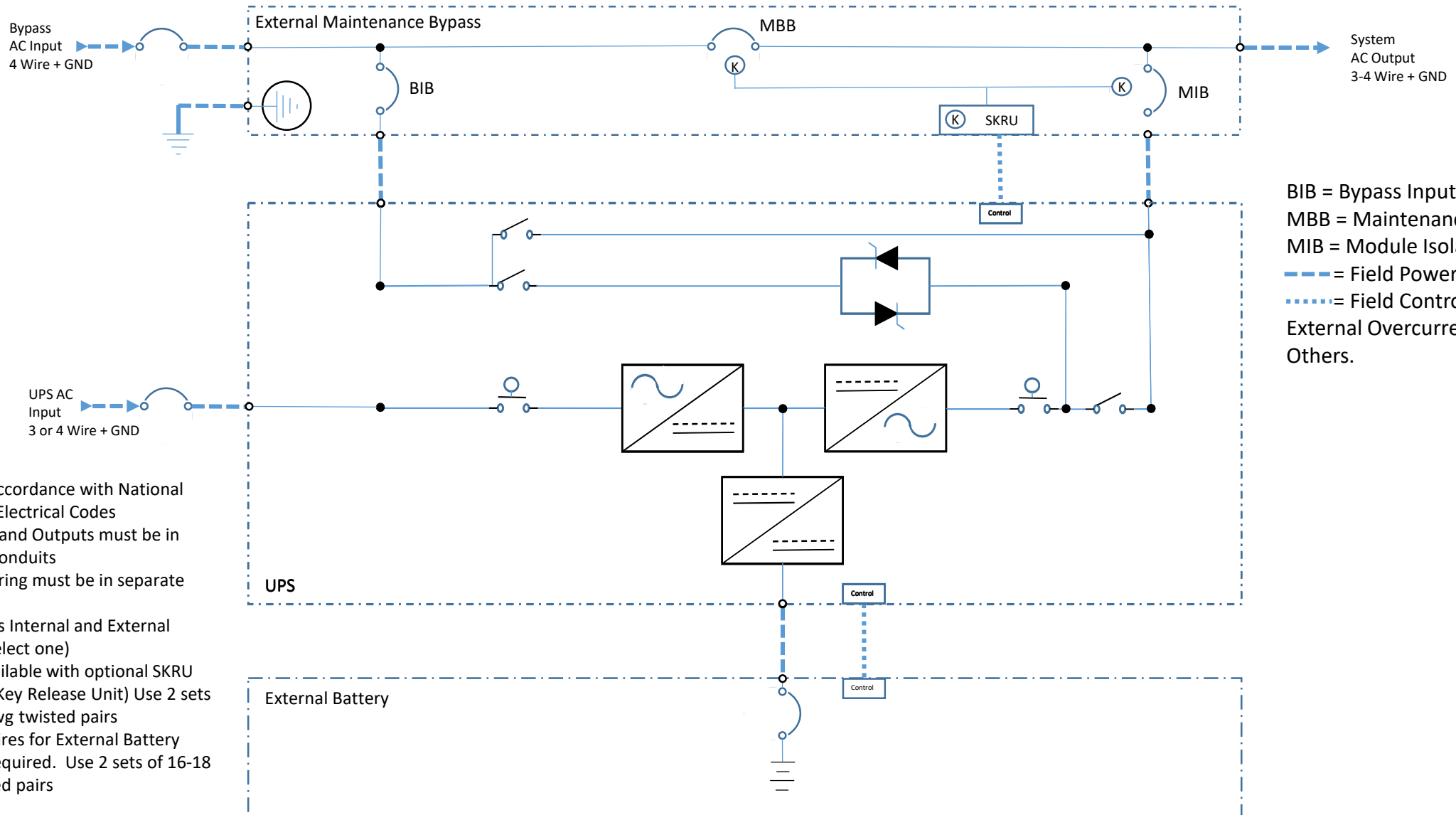
Site Planning Data – 300-500kVA 480v Input - 480v Output – Single Input

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 Overcurrent Protection	Nom	External Overcurrent Protection	Nom	External Overcurrent Protection	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100% Load
300	300	480/277v	480/277v	361	433	500	361	500	361	500	641	769	58,800	59 x 33.5 x 74.80 (1498.6 x 850 x 1900)	95
400	400	480/277v	480/277v	481	640	700	481	700	481	700	855	1025	78,410	59 x 39.7 x 74.80 (1498.6 x 1008 x 1900)	95
500	450	480/277v	480/277v	601	640	800	601	800	601	800	962	1154	98,000	59 x 39.7 x 74.80 (1498.6 x 1008 x 1900)	95

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, 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 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 Series UPS: 300-500kVA/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 SERIES 300-500kVA, SINGLE MODULE SITE PLANNING GUIDE

Site Planning Data – 300-500kVA 480v Dual Input; 480v Output

UPS Output Rating		Voltage		AC Input Rectifier Current in Amps			Bypass Input Current in Amps		AC Output Current		Battery		Max Heat Dissipation	Dimensions	Inverter Efficiencies
kVA	kW	Input	Output	Nom.	Max	External Overcurrent Protection	Nom	External Overcurrent Protection	Nom	External Overcurrent Protection	Nom VDC	Max. Discharge	Full Load BTU's / Hr.	WxDxH inches (mm)	Inverter DC-AC 100% Load
300	300	480/277v	480/277v	361	433	500	361	500	361	500	641	769	58,800	59 x 33.5 x 74.80 (1498.6 x 850 x 1900)	95
400	400	480/277v	480/277v	481	640	700	481	700	481	700	855	1025	78,410	59 x 39.7 x 74.80 (1498.6 x 1008 x 1900)	95
500	450	480/277v	480/277v	601	640	800	601	800	601	800	962	1154	98,000	59 x 39.7 x 74.80 (1498.6 x 1008 x 1900)	95

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, 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 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.