

Staco E3 UPS Product Technical Data Specification

Staco E3 - 7.5kVA Model Specifications are listed below. Bypass Input (Dual Input) is a selectable option. Battery Supply remains the same for all input/output voltage combinations.

Rectifier Input - 7.5kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	29	WYE (3W+N+E)	8AWG
208Δ	29	DELTA (3W+E)	8AWG
220/127Y	27	WYE (3W+N+E)	10AWG
230/133Y	26	WYE (3W+N+E)	10AWG
240Δ	25	DELTA (3W+E)	10AWG
480/277Y	13	WYE (3W+N+E)	14AWG
480Δ	13	DELTA (3W+E)	14AWG
575/332Y	11	WYE (3W+N+E)	14AWG
600/347Y	10	WYE (3W+N+E)	14AWG
600Δ	10	DELTA (3W+E)	14AWG

Bypass Input (Dual Input) - 7.5kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	21	WYE (3W+N+E)	10AWG
208Δ	21	DELTA (3W+E)	10AWG
220/127Y	20	WYE (3W+N+E)	12AWG
230/133Y	19	WYE (3W+N+E)	12AWG
240Δ	19	DELTA (3W+E)	12AWG
480/277Y	9	WYE (3W+N+E)	14AWG
480Δ	9	DELTA (3W+E)	14AWG
575/332Y	8	WYE (3W+N+E)	14AWG
600/347Y	7	WYE (3W+N+E)	14AWG
600Δ	7	DELTA (3W+E)	14AWG

1: Based on 75°C copper wire.

2: Recommended cable sized based on THW cables at 30°C ambient (NEC Table 310.16). If different cables are used or installed at higher ambient, the cable size need to be reviewed

3: Any external battery wires use reinforced insulation or double insulated wire.

Output - 7.5kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	21	WYE (3W+N+E)	10AWG
208Δ	21	DELTA (3W+E)	10AWG
220/127Y	20	WYE (3W+N+E)	12AWG
230/133Y	19	WYE (3W+N+E)	12AWG
240Δ	19	DELTA (3W+E)	12AWG
480/277Y	9	WYE (3W+N+E)	14AWG
480Δ	9	DELTA (3W+E)	14AWG
575/332Y	8	WYE (3W+N+E)	14AWG
600/347Y	7	WYE (3W+N+E)	14AWG
600Δ	7	DELTA (3W+E)	14AWG

Battery Supply - 7.5kVA Model		
Nominal Vdc	Max Amperes DC	Recommended Cables ^{1, 2, 3}
240	40	8AWG

1: Based on 75°C copper wire.

2: Recommended cable sized based on THW cables at 30°C ambient (NEC Table 310.16). If different cables are used or installed at higher ambient, the cable size need to be reviewed.

3: Any external battery wires use reinforced insulation or double insulated wire.

Staco E3 Transformer, Battery, Weights, & BTU Details						
Power (kVA)	Input transformer	Output Transformer	Internal Battery	Maximum Weight	BTU/hr	Notes
7.5	No	No	None	628	2300	3
	No	No	(1) 34W/8Ah	880	2300	3
	No	No	(1) 90W/23Ah	1259	2300	3
	No	No	(2) 34W/8Ah	1132	2300	1, 3
	No	No	(2) 90W/23Ah	1890	2300	2, 3
	No	Yes	None	908	3000	3
	No	Yes	(1) 34W/8Ah	1160	3000	3
	No	Yes	(1) 90W/23Ah	1539	3000	3
	Yes	No	None	908	3000	3
	Yes	No	(1) 34W/8Ah	1160	3000	3
	Yes	No	(1) 90W/23Ah	1539	3000	3
	Yes	Yes	None	1188	3700	3
	Yes	Yes	(1) 34W/8Ah	1440	3700	3
	Yes	Yes	(1) 90W/23Ah	1819	3700	3

1. Add 126 lbs. for each additional internal string of 34W/8Ah batteries.

2. Add 316 lbs. for each additional internal string of 90W/23Ah batteries.

3. All Weights are in pounds. Additional options may increase weight.