

Staco E3 UPS Product Technical Data Specification

Staco E3 - 30kVA 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 - 30kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	117	WYE (3W+N+E)	1/0
208Δ	120	DELTA (3W+E)	1/0
220/127Y	111	WYE (3W+N+E)	1/0
230/133Y	107	WYE (3W+N+E)	1/0
240Δ	104	DELTA (3W+E)	1AWG
480/277Y	52	WYE (3W+N+E)	6AWG
480Δ	52	DELTA (3W+E)	6AWG
575/332Y	43	WYE (3W+N+E)	6AWG
600/347Y	41	WYE (3W+N+E)	6AWG
600Δ	42	DELTA (3W+E)	6AWG

Bypass Input (Dual Input) - 30kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	83	WYE (3W+N+E)	2AWG
208Δ	85	DELTA (3W+E)	2AWG
220/127Y	79	WYE (3W+N+E)	3AWG
230/133Y	77	WYE (3W+N+E)	3AWG
240Δ	74	DELTA (3W+E)	3AWG
480/277Y	37	WYE (3W+N+E)	8AWG
480Δ	37	DELTA (3W+E)	8AWG
575/332Y	31	WYE (3W+N+E)	8AWG
600/347Y	29	WYE (3W+N+E)	8AWG
600Δ	30	DELTA (3W+E)	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.

Output - 30kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	83	WYE (3W+N+E)	2AWG
208Δ	85	DELTA (3W+E)	2AWG
220/127Y	79	WYE (3W+N+E)	3AWG
230/133Y	77	WYE (3W+N+E)	3AWG
240Δ	74	DELTA (3W+E)	3AWG
480/277Y	37	WYE (3W+N+E)	8AWG
480Δ	37	DELTA (3W+E)	8AWG
575/332Y	31	WYE (3W+N+E)	8AWG
600/347Y	29	WYE (3W+N+E)	8AWG
600Δ	30	DELTA (3W+E)	8AWG

Battery Supply - 30kVA Model		
Nominal Vdc	Max Amperes DC	Recommended Cables ^{1, 2, 3}
240	168	2/0

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
30	No	No	None	628	11600	3
	No	No	(1) 34W/8Ah	880	11600	3
	No	No	(1) 90W/23Ah	1259	11600	3
	No	No	(2) 34W/8Ah	1132	11600	1, 3
	No	No	(2) 90W/23Ah	1890	11600	2, 3
	No	Yes	None	1028	14500	3
	No	Yes	(1) 34W/8Ah	1310	14500	3
	No	Yes	(1) 90W/23Ah	1689	14500	3
	Yes	No	None	1058	14500	3
	Yes	No	(1) 34W/8Ah	1310	14500	3
	Yes	No	(1) 90W/23Ah	1689	14500	3
	Yes	Yes	None	1458	17500	3
	Yes	Yes	(1) 34W/8Ah	1710	17500	3
	Yes	Yes	(1) 90W/23Ah	2089	17500	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.