

Staco E3 UL924 Technical Data Specification

Staco E3 – 40.0kVA 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 - 40kVA Model				Bypass Input (Dual Input) - 40kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}	Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	156	WYE (3W+N+E)	3/0	208/120Y	111	WYE (3W+N+E)	1/0
208Δ	160	DELTA (3W+E)	3/0	208Δ	114	DELTA (3W+E)	1/0
220/127Y	147	WYE (3W+N+E)	3/0	220/127Y	105	WYE (3W+N+E)	1/0
230/133Y	143	WYE (3W+N+E)	3/0	230/133Y	102	WYE (3W+N+E)	1AWG
240Δ	139	DELTA (3W+E)	2/0	240Δ	99	DELTA (3W+E)	1AWG
480/277Y	69	WYE (3W+N+E)	3AWG	480/277Y	49	WYE (3W+N+E)	6AWG
480Δ	69	DELTA (3W+E)	3AWG	480Δ	49	DELTA (3W+E)	6AWG
575/332Y	57	WYE (3W+N+E)	4AWG	575/332Y	41	WYE (3W+N+E)	6AWG
600/347Y	55	WYE (3W+N+E)	4AWG	600/347Y	39	WYE (3W+N+E)	8AWG
600Δ	55	DELTA (3W+E)	4AWG	600Δ	40	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.

Together We Power On

Output - 40kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	111	WYE (3W+N+E)	1/0
208Δ	114	DELTA (3W+E)	1/0
220/127Y	105	WYE (3W+N+E)	1/0
230/133Y	102	WYE (3W+N+E)	1AWG
240Δ	99	DELTA (3W+E)	1AWG
480/277Y	49	WYE (3W+N+E)	6AWG
480Δ	49	DELTA (3W+E)	6AWG
575/332Y	41	WYE (3W+N+E)	6AWG
600/347Y	39	WYE (3W+N+E)	8AWG
600Δ	40	DELTA (3W+E)	8AWG

Battery Supply - 40kVA Model		
Nominal Vdc	Max Amperes DC	Recommended Cables ^{1, 2, 3}
240	224	4/0

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	Max System Weight	BTU/hr	Notes
40	No	No	None	7410	15400	1,2
	No	Yes	None	7810	19300	1,2
	Yes	No	None	7810	19300	1,2
	Yes	Yes	None	8290	23300	1,2

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

2. Weights includes external battery cabinet.