

Staco E3 UL924 Technical Data Specification

Staco E3 – 20kVA 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 - 20kVA Model				Bypass Input (Dual Input) - 20kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}	Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	78	WYE (3W+N+E)	3AWG	208/120Y	56	WYE (3W+N+E)	4AWG
208Δ	80	DELTA (3W+E)	3AWG	208Δ	57	DELTA (3W+E)	4AWG
220/127Y	74	WYE (3W+N+E)	3AWG	220/127Y	53	WYE (3W+N+E)	4AWG
230/133Y	72	WYE (3W+N+E)	3AWG	230/133Y	51	WYE (3W+N+E)	6AWG
240Δ	69	DELTA (3W+E)	3AWG	240Δ	49	DELTA (3W+E)	6AWG
480/277Y	34	WYE (3W+N+E)	8AWG	480/277Y	24	WYE (3W+N+E)	10AWG
480Δ	35	DELTA (3W+E)	8AWG	480Δ	25	DELTA (3W+E)	10AWG
575/332Y	29	WYE (3W+N+E)	8AWG	575/332Y	20	WYE (3W+N+E)	10AWG
600/347Y	27	WYE (3W+N+E)	10AWG	600/347Y	20	WYE (3W+N+E)	12AWG
600Δ	28	DELTA (3W+E)	10AWG	600Δ	20	DELTA (3W+E)	12AWG

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 - 20kVA Model			
Vac	Max Amperes	Configuration	Recommended Cables ^{1, 2, 3}
208/120Y	56	WYE (3W+N+E)	4AWG
208Δ	57	DELTA (3W+E)	4AWG
220/127Y	53	WYE (3W+N+E)	4AWG
230/133Y	51	WYE (3W+N+E)	6AWG
240Δ	49	DELTA (3W+E)	6AWG
480/277Y	24	WYE (3W+N+E)	10AWG
480Δ	25	DELTA (3W+E)	10AWG
575/332Y	20	WYE (3W+N+E)	10AWG
600/347Y	20	WYE (3W+N+E)	12AWG
600Δ	20	DELTA (3W+E)	12AWG

Battery Supply - 20kVA Model		
Nominal Vdc	Max Amperes DC	Recommended Cables ^{1, 2, 3}
240	112	2AWG

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
20	No	No	None	4025	7700	1,2
	No	Yes	None	4305	9700	1,2
	Yes	No	None	4305	9700	1,2
	Yes	Yes	None	4655	11700	1,2

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

2. Weights includes external battery cabinet.