

# InfraStruXure Planning Guide

## Smart-UPS VT Rack Mount UPS 20 kVA - 30 kVA UPS (208V-208/120V / 480V-208/120V)



		AC Input (208V)							DC Battery System				AC Output (208V)					
		Source		P (kW)	I (A)		Service Overcurrent (A)	V <sub>pc</sub>	Full Load	I <sub>pc</sub>	I <sub>pc</sub>	In	Load Side	Physical Data				
Type	Power Rating			V	Hz	Nom.	Nom.	Max.	Max	(V)	(kW)	(A)	(A)	(A)	Breaker Size	Dimensions	Weight	
SUVT	kVA	kW	Pf	V	Hz	Nom.	Nom.	Max.	Max	Nom.	P	Dis. Nom.	Dis. Max.	V	Nom.	Protection (A)	HxWxD (mm)	Lbs
SUVTR20KF	20	16	0.8	208	60	17.4	48.2	53.0	80	2 x 192	17.0	44.4	55.7	208	48	80	1995x600 X1075	1,244 / 2
SUVTR20KF	20	16	0.8	480	60	17.0	20.9	23.0	80	2 x 192	17.0	44.4	55.7	208	48	80	1995x600 X1075	1,690 / 2
SUVTR30KF	30	24	0.8	208	60	26.3	72.9	80.1	125	2 x 192	25.6	66.6	83.5	208	73	125	1500x523x854	1,444 / 3
SUVTR30KF	30	24	0.8	480	60	25.7	31.6	34.7	125	2 x 192	25.6	66.6	83.5	208	73	125	1995x600 X1075	1,890 / 3
Note						1	2, 7	3, 6, 7		5	4	10	11	12		8, 9		

- \*Add 200 lbs for each additional Battery Module.
- Nominal (Nom.) input current based on nominal mains voltage + batteries fully charged at 200% ohmic load.
- Maximum (Max.) input current based on full battery recharge + nominal mains voltage at 100% ohmic load.
- Suggested input overcurrent protection based on continuous full load.
- The battery power takes into account the DC-AC efficiency of the main inverter for linear load.
- Nominal battery voltage assumed to be 2.0 volts/cell (lead technology).
- Breaker selection based on Nom. input current is acceptable provided battery recharge time is short. Consult factory for application specific assistance.

- Minimum access clearance per UPS drawings.
- Cable entry per installation guide.
- The battery nominal discharge current is based on the nominal cell voltage of 2.0V/cell, thus giving a total voltage of 2x192V.
- The battery max. discharge current is based on a cell end voltage of 1.6V/cell, thus giving a total end voltage of 2x154V.
- The output current is based on the nominal apparent power of the UPS.

RATINGS OF CABLES AND OVERCURRENT DEVICES SUPPLIED FOR INFORMATION ONLY. USER TO CONSULT WITH THEIR ENGINEERING SERVICES BEFORE ADOPTING.