

Application Note- Huawei SUN2000MA Inverters Short Current Contribution

Revision History

Version 1.0 March 31, 2022 – Initial release

Application Solution	Application Note- Huawei SUN2000MA Inverters Short Current Contribution					
Solution Description	According to IEC60909-0:2016, the definitions of I_p , I''_k and I_k is used for calculation of short-circuits current of power generators.					
Solution Diagram	Model	P_{max} (kVA)	V_{ac} (V)	I_p (A)	I''_k (A)	I_k (A)
	SUN2000-3KTL-M1	3.3	400 Vac	38.4	7.7	5.1
	SUN2000-4KTL-M1	4.4	400 Vac	40.8	10.2	6.8
	SUN2000-5KTL-M1	5.5	400 Vac	44.0	12.8	8.5
	SUN2000-6KTL-M1	6.6	400 Vac	46.0	15.2	10.1
	SUN2000-8KTL-M1	8.8	400 Vac	51.0	20.3	13.5
	SUN2000-10KTL-M1	11	400 Vac	55.8	25.4	16.9
	SUN2000-12KTL-M1	12	400 Vac	53.4	27.6	18.4
	SUN2000-8KTL-M2	8.8	400 Vac	52.2	20.1	13.4
	SUN2000-10KTL-M2	11	400 Vac	55.8	25.5	17.0
	SUN2000-12KTL-M2	13.2	400 Vac	55.8	30.0	20.0
	SUN2000-15KTL-M2	16.5	400 Vac	63.0	37.8	25.2
	SUN2000-17KTL-M2	18.7	400 Vac	67.8	42.8	28.5
	SUN2000-20KTL-M2	22	400 Vac	74.4	50.3	33.5
	SUN2000-20KTL-M3 (JP)	22	202 Vac	196.6	94.8	63.2
	SUN2000-20KTL-M3 (Other)	22	202 Vac	180.4	87	58
	SUN2000-29.9KTL-M3	29.9	400 Vac	134.4	64.8	43.2
	SUN2000-30KTL-M3	33	400 Vac	149.0	71.85	47.9

	SUN2000-36KTL-M3	40	400 Vac	180.4	87	58
	SUN2000-40KTL-M3	44	400 Vac	198.5	95.7	63.8
	SUN2000-50KTL-M3	55	400 Vac	246.9	158.7	79.4
	SUN2000-150K-MG0	165	400 Vac	740.8	476.3	238.1
(Pmax: Max.AC Apparent Power,Vac: Rated Output Voltage(line voltage),Ip: Peak short-circuit current) (I''k :Initial short circuit current, Ik: Short circuit contribution)						
Solution Notes	1. This documents provides short-circuits information of Huawei SUN2000MA inverters.					