



INTELLIGENT PHOTOVOLTAIC CONTROLLER

SUN2000-110KTL-M0

Intelligent photovoltaic controller



Support IV diagnosis



Maximum efficiency 98.6%



No fuse design



IP66 protection class



20-channel high-precision
string detection



Built-in AC-DC lightning
protection



10 way MPPT

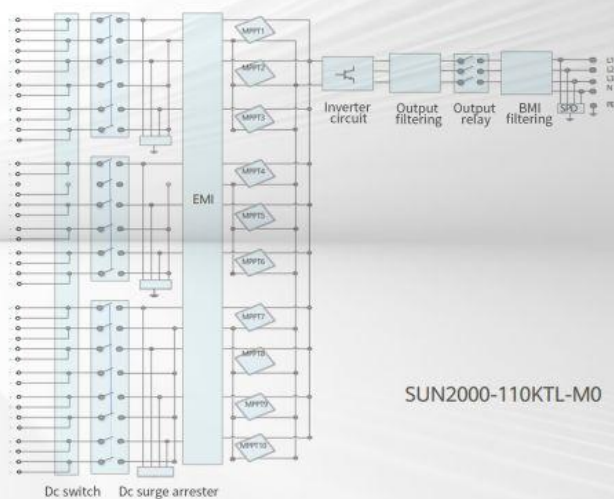


Supports MBUS communication

Efficiency curve



Circuit block diagram



SUN2000-110KTL-M0



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Technical parameter		SUN2000-110KTL-M0
efficiency	Maximum efficiency	98.6%
	Chinese efficiency	98.1%
input	Maximum input voltage	1100 V
	Maximum input current of each MPPT	26 A (two-way) / 18 A (Single channel)
	MPPT maximum short circuit current of each channel	40 A
	MPPT voltage range	200 V ~ 1000 V
	Rated input voltage	600 V
	Maximum number of input channels	20
	MPPT quantity	10
output	Rated output power	110,000 W
	Maximum apparent power	121,000 VA
	Maximum active power($\cos\phi=1$)	121,000 W
	Rated output voltage	3 × 220 V/380 V, 3 × 230 V/400 V, 3W+N+PE
	Output voltage frequency	50 Hz
	Rated output current	167.2A (380Vac) , 158.8A (400Vac)
	Maximum output current	185.7A (380Vac) , 176.4A (400Vac)
	Power factor	0.8 Look ahead 0.8 hysteresis
	Maximum total harmonic distortion	<3%
	Input DC switch	support
Protection	Antiisland protection	support
	Output overcurrent protection	support
	Input reverse protection	support
	Cluster fault detection	support
	Straight wandering surge protection	Type II
	Ac surge protection	Type II
	Insulation impedance detection	support
	Residual current monitoring	support
	reveal	LED Pilot lamp, Bluetooth +APP
	RS485	support
	USB	support
	MBUS	support
Conventional parameter	Dimensions (width x height x thickness)	1035 x 700 x 365 mm
	Weight (including pylon)	≤ 90 kg
	Operating temperature	-25°C ~ 60°C
	Cooling mode	Intelligent air cooling
	Maximum working altitude	5,000 m (> 4,000 m derate)
	Relative humidity	0 ~ 100%
	Input terminal	Staubli MC4
	Output terminal	OTterminal
	Class of protection	Waterproof terminal + OT/DT terminal
	topology	IP66