



INTELLIGENT PHOTOVOLTAIC CONTROLLER

SUN2000-100KTL-M1

Intelligent photovoltaic controller



Support AFCI



Maximum efficiency 98.6%



No fuse design



IP66 protection class



20-channel high-precision
string detection



Built-in AC-DC lightning
protection

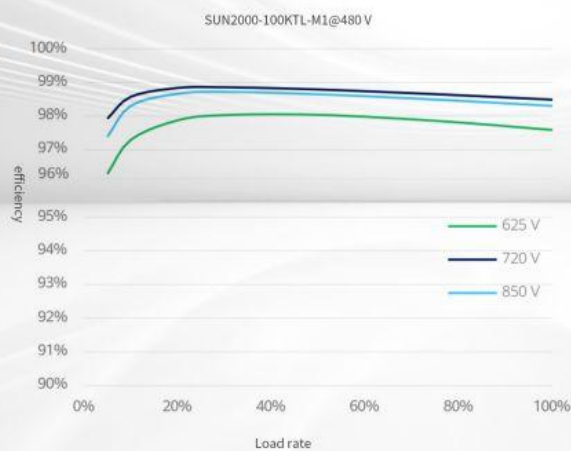


10 way MPPT

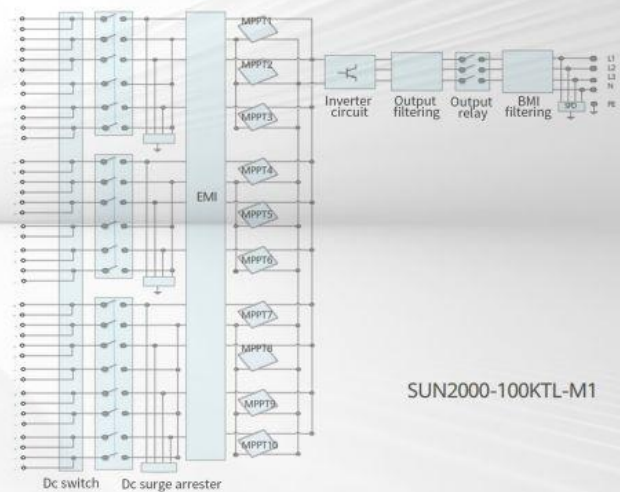


Supports MBUS communication

Efficiency curve



Circuit block diagram



SUN2000-100KTL-M1



SUN2000-100KTL-M1

Technical parameter		SUN2000-100KTL-M1
efficiency	Maximum efficiency	98.60%
	Chinese efficiency	98.20%
Input	Maximum input voltage	1100 V
	Maximum input current of each MPPT	22 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
export	Rated output power	100,000 W
	Maximum apparent power	110,000 VA
	Maximum active power (cosφ=1)	110,000 W
	Rated output voltage	400 V/ 380 V, 3W+(N)+PE
	Output voltage frequency	50 Hz / 60 Hz
	Rated output current	144.4 A @400 V, 152.0 A @380 V
	Maximum output current	160.4 A @400 V, 168.8 A @380 V
	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	support
	Ac surge protection	support
	Insulation impedance detection	support
	Residual current monitoring	support
	reveal	support
	RS485	LED Pilot lamp WLAN+APP
Conventional parameter	USB	support
	MBUS	support
	Dongle	support
	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	5000 m (> 4000 m derate)
	Relative humidity	0 ~ 100%
	Input terminal	Staubli MC4
	Output terminal	Waterproof terminal + OT/DT terminal
	Class of protection	IP66
	topology	transformerless
China		NB/T 32004