



INTELLIGENT PHOTOVOLTAIC CONTROLLER

SUN2000-15/17/20/25KTL-ZHM5

Intelligent photovoltaic controller



Wisdom is highly reliable

10 years warranty is standard
Better adapt to weak rural power grids



Be wise and secure

Excellent EMC performance
Strictly meet compliance requirements



Zhiduo power generation

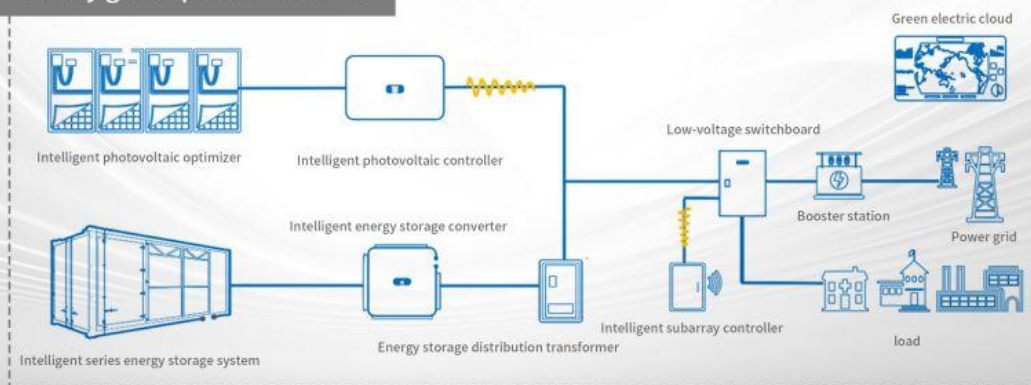
Intelligent MPPT multi-peak tracking 30A
MPPTCurrent is better suited to
high-current components



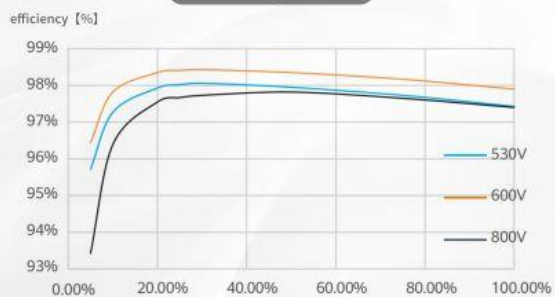
Wisdom is easy to worry about

Intelligent photovoltaic cloud intelligent
operation and maintenance,
Digital management value in one screen

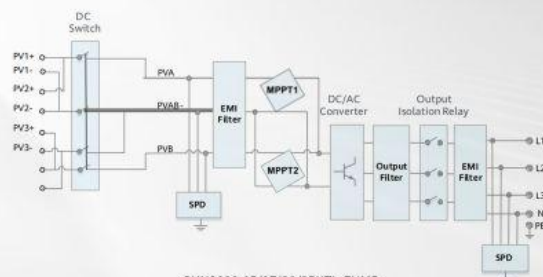
Industry green power solutions



Efficiency curve



Circuit block diagram



SUN2000-15/17/20/25KTL-ZHM5



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Technical parameters		SUN2000 -15KTL-ZHM5	SUN2000 -17KTL-ZHM5	SUN2000 -20KTL-ZHM5	SUN2000 -25KTL-ZHM5
efficiency	Maximum efficiency	98.5%	98.5%	98.5%	98.5%
	Efficiency in China	97.4%	97.5%	97.6%	98.0%
Input	Maximum recommended component power	22500 Wp	25500 Wp	30000 Wp	37500 Wp
	Maximum DC input voltage 1	1100 V			
	Fully loaded MPPT range	410V~800V	440V~800V	480V~800V	530~800V
	MPPT voltage range 2	200 V ~ 1000 V			
	Starting voltage	200 V			
	Rated input voltage	600 V			
	Maximum input current per MPPT	20A (Single-way group string) / 30A (1Road MPPT)			
	Maximum short-circuit current per MPPT	40A			
	Number of MPPT	2			
	Maximum number of input ways	4			
	Adapted grid	Three phases			
Output	Rated output power	15000 W	17000 W	20000 W	25000 W
	The maximum output appears to be power	16500 VA	18700 VA	22000 VA	27500 W
	Rated output voltage	220Vac / 380Vac, 230Vac / 400Vac, 3W/N+PE			
	Rated output frequency	50 Hz / 60 Hz			
	Maximum output current	25.2A/380Vac	28.6A/380Vac	33.6A/380Vac	42.0A/380Vac
		23.9A/400Vac	27.1A/400Vac	31.9A/400Vac	39.9A/400Vac
	Power factor	0.8 Ahead of the curve 0.8 lag			
Characteristics and protection	Maximum total harmonic distortion	< 3 %			
	Input dc switch	Support			
	Protection against isolated islands	Support			
	Ac overcurrent protection	Support			
	Ac short circuit protection	Support			
	Ac overvoltage protection	Support			
	Dc reverse connection protection	Support			
	Ac surge protection	Type II			
	Direct wandering surge protection	CLASS II			
	Residual current detection unit	Support			
	AFCI intelligent arc protection	Support			
	Remote power scheduling at dry nodes	Support			
General parameters	Built-in PID repair 3	Support			
	Operating temperature	-25 ~ +60 °C			
	Operating relative humidity	0 % RH ~ 100% RH			
	Maximum working altitude	4,000 m (2,000m Above derating)			
	Mode of cooling	Intelligent air cooling			
	display	LED indicator light; Built-in WLAN + FusionSolar APP			
	External extension communication	Standard: built-in WLAN module, RS485, 4G smart communication stick Optional: WLAN-FE intelligent communication stick			
	Weight (including mounting parts)	21 kg			
	Dimensions (including mounting parts) (W x H x H)	546 * 460 * 228 mm			
	Class of protection	IP66			
Criteria met	Adaptation optimizer model number	SUN2000-450W-P, SUN2000-450W-P2, SUN2000-600W-P, SUN2000-1100/1300W-P4			
	Security	EN/IEC 62109-1, EN/IEC 62109-2			
	Grid-connected standard	NB/T 32004			