



Single Phase Hybrid Inverter

Technical Parameters

		TB3K-H1P	TB4K-H1P	TB4.6K-H1P	TB5K-H1P	TB6K-H1P
DC Input (PV)	Max.Input Power	6kW	8kW	9.2kW	10.5kW	11.2kW
	Max.Input Voltage	550V				
	MPPT Voltage Range	120V~550V				
	Max.Input Current Per MPPT Tracker	13.5A				
	NO.of MPPT	2				
	String Per MPPT	1				
DC Input (Battery)	Battery Type	Li-ion(LFP)				
	Battery Voltage Range	42~59V				
	Nominal Battery Voltage	51.2V				
	Max. Continuous Charging Current	66A	85A	85A	85A	85A
	Max. Continuous Discharge Current	66A	85A	85A	85A	85A
	BMS Communication Mode	CAN, RS485				
AC Output (ON-Grid)	Nominal Output Power	3kW	4kW	4kW	5kW	6kW
	Max. Output Apparent Power	3kVA	4kVA	4kVA	5kVA	6kVA
	Max. Output Current	13.6A	18.2A	20.9A	22.7A	27.3A
	Nominal Grid Voltage	230V/(180VAC-270VAC)				
	Nominal Grid Frequency	50/60Hz				
	THDi	<3%				
AC Output (OFF-Grid)	Adjustable Power Factor	0.8Leading-0.8Lagging				
	Max. Output Apparent Power	3kVA	4kVA	4kVA	4kVA	4kVA
	Nominal Output Power	3kW	4kW	4kW	4kW	4kW
	Nominal Output Current	13.6A	18.2A	18.2A	18.2A	18.2A
	Nominal Output Voltage	230V				
	AC Grid Frequency	50/60Hz				
Efficiency	ON/OFF-Grid Automatic Switching Time	<10ms				
	THDv	<3%				
	Max. Efficiency	97.20%	97.30%	97.40%	97.50%	97.60%
Display	MPPT Efficiency	≥99.5%				
	European Efficiency	97%	97.10%	97.10%	97.20%	97.20%
Protection	Display	APP+LED				
	Monitor	WIFI / 4G (Optional)				
General Data	Insulation Resistance Monitoring	Yes				
	Residual Current Monitoring	Yes				
	DC Reverse Connection Protection	Yes				
	Anti-islanding Protection	Yes				
	AC Over Current Protection	Yes				
	AC Short Circuit Protection	Yes				
	AC Over Voltage Protection	Yes				
	AC/DC Surge Protection	DC: II / AC: III				
General Data	Operating Ambient Temperature Range	-25°C~+60°C				
	Relative Humidity	0~100%				
	Altitude	2000m				
	Power Consumption at Night	<10w				
	Topology	NON-ISOLATED				
	Cooling	Natural Cooling				
	Degree of Protection	IP65				
	Weight	26kg				
General Data	Dimensions(W*H*D)	480mm×565mm×205mm				
	Installation Style	Wall Mounting				