

10KW Energy Storage System

KYS 10kw-(20)kwh-T

HYBRID INVERTER MODEL
 KY-EST10KH

BATTERY CAPACITY 20KWH
 KY-51V105AH-T



ALL-IN-ONE

Modular design

Modular design, Stacked installationsimpleappear-
 ance de sign, integration of modem home;

SAFE AND RELIABLE

Smart air cooling,low temperature rise. long life time,-
 multiple protection functions;

SMART SWITCH

Of-grid operation,supporting emergency power
 supply and seamless switching;

SMART AND SIMPLE

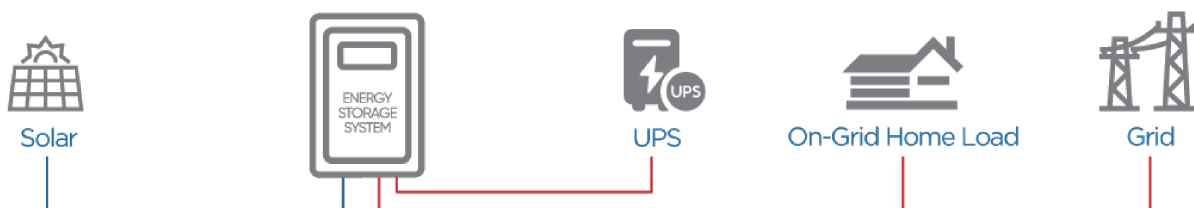
Supporting GPRS/WIFI/RS485/USBLCD design, sup-
 porting remote monitoring;

WIDE VOLTAGE INPUT RANGE

Ultra-wide PV voltage range 120V-500V, battery
 Ultra-wide voltage range 85V-450V;

HIGH POWER EFFICIENCY

Less output power reduction under high temperature,
 with efficiency improved, max PV input power up to
 1.3X rated power.



Model	KYS 10kw-(20)kwh-T	
Efficiency	MPPT.Efficiency	99.90%
	Max.Efficiency	>97.80%
	Battery.Efficiency	>98.10%
Battery Pack	Model	KY-51V105AH-T
	Serial Number	4
	CellType	Li-ion(LFP)
	Battery Capacity(Ah)	105
	Storage Capacity(KWh)	20
	Available Capacity(KWh)	18
	CycleLife	7000
PV Input	Max.PV input power(W)	13000
	Max.PV input voltage(V)	1000
	MPPT Operation Voltage Range(V)	180-950
	Number of MPPT/PV strings	2/1
	Max.PV input current(A)	12.5/12.5
	Short-circuit current of PV input(A)	15/15
Battery Port	Operating Voltage Range(V)	180-550
	Max Charge/Discharge Current(A)	25/30
	Communication With BMS	CAN
AC Input & Output	Rated Power(W)	10000
	Max.Apparent AC Power(VA)	10000
	Nominal AC Voltage(Vac)	380, 3L/N/PE
	AC Power Frequency(Hz)	50/60
	Max.AC Output Current(A)	15
	Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)
	Output THDi(@NominalOutput)	<3%
Off-Grid AC Output (Back-up AC Output)	Rated Output Power(W)	10000
	Max.Apparent AC Output Power(VA)	10000
	Nominal AC Output Voltage(Vac)	380,3L/N/PE
	AC Power Frequency(Hz)	50/60
	Max.AC Output Current(A)	15
General Data	Operating Temperature Range	-25°C...+60°C (>45°Cderating)
	Operating Altitude(m)	<3000
	Noise(dB)	<40
	Topology	Transformerless
	Cooling Method	natural
	Ingress Protection Rating	IP65
	Relative Humidity	5-85%,no condensation
	Display	LCD
	Communication With Portal	RS485 (WiFi/GPRS Optional)
	Communication With Meter	RS485
Dimensions(W/H/D)	510*446.5*1490mm	
Certification	Safety	IEC62109-1/-2
	EMC	EN61000-6-1/-2/-3, IEC61000
	On-Grid standard	AS4777.2,NRS097-2-1:2017
	Transportation	UN38.3

*Battery pack stacking quantity selection range

*The model name is determined by the number of battery packs