

Solar Hybrid Inverter

Specifications

MODEL TYPE	HKG4048T-ES	HKG5048T-ES	HKG6048T-ES
PV INPUT:			
Max. DC Power (@cosφ=1) total / per MPP Input	4500 W / 2250 W	5300 W / 2650 W	6300 W / 3150 W
Max. Input Current Input A / Input B	23.4 A / 23.4 A	27.6 A / 27.6 A	32.8 A / 32.8 A
Number of MPPTs		2	
Number of independent MPP Inputs		1	
MPP Voltage Range		96 - 172 Vdc	
BATTERY:			
Battery Type	Li-Ion, Lead Acid or Gel		
Charging Curve	3-stage adaptive with maintenance		
Battery Voltage Range	40 - 60 Vdc		
Battery Capacity	100 - 500 Ah(Depend on requirement)		
Charge Current	5-50 A (programmable by battery capacity or charging time)		
INVERTER:			
Continuous Output Power	4000 VA	5000 VA	6000 VA
AC Output Current	17 A	22 A	26 A
Cos Phi	~1 at Nominal power (0.9 leading ...0.9 lagging adjustable)		
Nominal Output Voltage	230 Vac, 50 Hz		
AC Output Range	180-260 Vac 50/60 Hz(limited by local anti-islanding regulations)		
Output Voltage Distortion	<3% for linear load; <5% for non- linear load		
AC Output Voltage(off-grid)	230 Vac ±2%, 50 Hz ±0.2%, THD<3%, single phase		
Peak Power(off-grid)	2*Pnom, 10sec		
Transfer Time(off-grid)	<10 ms (typical)		
Max.Efficiency	96%		
Max.MPP Efficiency	99.9%		
ENVIRONMENTAL :			
Operating Temperature Range (°C)	-25 - +60 °C(derating from 50°C)		
Storage Temperature (°C)	-40 to + 70 °C		
Humidity	0-100%, non-condensing		
Altitude (m)	2000 m (rising every 100m derating 1%)		
Safety Certification	IEC62109-1&-2, AS3100, IEC42040-1		
Grid Regulation	VDE-AR-N 4105, VDE 0126-1-1, AS 4777.2/3		
GENERAL DATA:			
Auxiliary Output(Switches off when no external AC source available)	25A		
Device Dimensions (W*H*D)	410*480*240 mm		
Protection Category	IP21		
Mounting Recommendation	Wall-mounted		
Gross Weight	32 Kg		
Topology	Transformer		
Cooling	Fan forced cooling		
Noise level	<45 dB(A) @ 1m		
LED Display	Integrated		
LCD Display	2-line LCD		
Warranty	5 Years		
Communication Port	USB / RS485 / WIFI (optional)		