

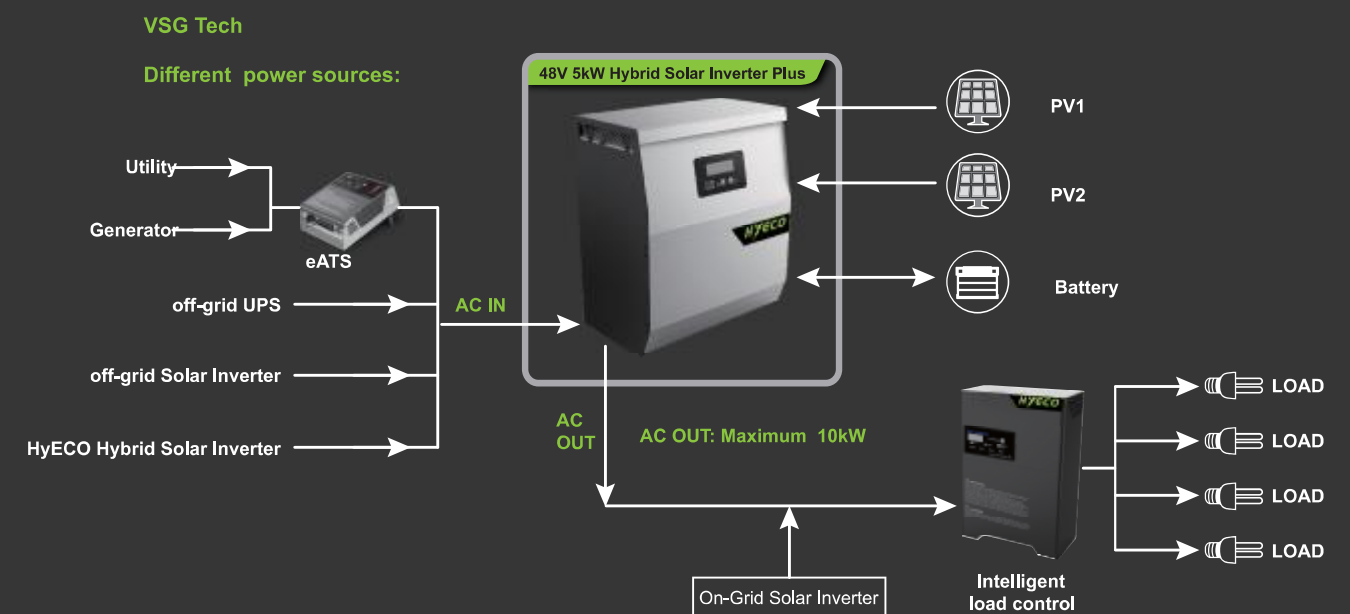
Accuby Series

Hybrid Solar Inverter Plus



- Pure sine wave, main and aux output , lower THD
- Capable of being grid-interactive or grid-independent
- Capable of in parallel or three phase operation
- Suitable to work with Li-Ion, Lead Acid and Gel battery packs
- Applicable to residential and commercial storage solution
- Simplified system design due to two MPPTs
- Transformer isolated with higher reliability
- Charge controller and inverter integrated
- Intelligent battery management function
- 50°C full-load output

Parallel Hybrid with HyECO Hybrid Solar Inverter Plus



Solar Hybrid Inverter

MODEL TYPE	Accuby-4048T-ES	Accuby-5048T-ES	Accuby-5548T-ES
Rated output power	4000W	5000W	5500W
PV INPUT:			
Max. DC Power (@cosφ=1) total / per MPP Input	4500W / 2250W	5500W / 2750W	6000W / 3000W
Number of Independent MPP Inputs / Strings per MPP Input	2 / 1		
Norminal Input Voltage	200Vdc		
System Start-up Voltage	116V±10V		
Maximum PV Open Voltage	250Vdc		
MPP Voltage Range	96-225Vdc		
EFFIECIENCY:			
Max.Efficiency [PV-AC]	96%		
Max.MPP Efficiency	99.9%		
UTILITY BYPASS INPUT(CHARGE+LOAD):			
Input Voltage Waveform	Pure sine wave (utility or generator)		
AC Input Voltage range	170-260Vac		
Max. AC Input current	30A		
Nominal Input Frequency	50Hz(default) / 60Hz (Auto detection)		
CHARGE MODE(PV OR UTILITY):			
Battery Type	Lead Acid (Li-Ion, Gel Optional)		
Charging curve	Bulk, Absorb, Float		
Battery voltage range	40-60Vdc		
Charge current	5-50A (programmable by battery capacity or charging time)		
Battery capacity	50~500Ah		
INVERTER MODE(AC):			
Power Factor	0.90 Lead~0.90 Lag (On-Grid) ; 0~1.0 (Off-Grid)		
Output phases	Single phase		
Output Voltage Waveform	Pure sine wave		
AC Output Voltage range	184-264Vac (depending on Grid voltage)		
Output voltage distortion	<3% for linear load; <5% for non-linear load		
Output Frequency(Hz)	45~55Hz or 55Hz~65Hz (depending on Grid frequency) ; 50Hz±0.1Hz (Off-Grid)		
Over-Load Protection	60s@>110% load; 20s@≥150%		
Surge rating(Capable of starting electric motor) (off grid)	2*rated power for 10s		
Transfer Time	<10ms (typical)		
INVERTER MODE(AC):			
Operating temperature range (°C)	-25~+60°C(derating from 50)		
Storage temperature (°C)	-40 to+70°C		
Humidity	0-100%, non-condensing		
Altitude (m)	2000 m (rising every 100m derating 1%)		
Regulatory approvals and standards	CE,VDE-AR-N 4105,VDE 0126-1-1,AS 4777.2/3 (On-Grid) ; CE (Off-Grid)		
GENERAL DATA:			
Auxiliary output(Switches off when no external AC source available)	25A		
Device dimensions (W*H*D)	410*490*240 mm		
Protection category	IP21		
Mounting recommendation	Wall bracket		
Gross weight	33Kg		
Topology	Transformer		
Cooling	Fan forced cooling		
Noise level	<45dB(A) @ 1m		
LED display	Integrated		
LCD display	2-line LCD		
Warranty (Year)	5/10/15/20/25		
Communication Port	1*USB2.0(DSP/HMI updated); 2*RS485(RJ45: monitor device); WIFI (optional)		

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