

# Growcol

Innovative Power



BRINGING GREEN ENERGY TO LIFE!



## GROWCOL All-in-one Energy Storage System

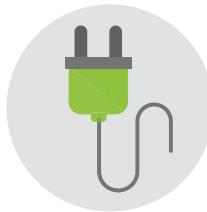
- **Ready-to-use**  
As one package combining inverter, battery and accessories, it enables operation after the plug-in of connectors.
- **Compact & Aesthetic**  
Compact design saves your space, while slim appearance fits your home's aesthetics.
- **Modular**  
The battery system is modular and can be expanded to exactly meet your energy storage demand of future.
- **Wall or Ground Mounted**
- **Stackable, to grow with you**
- **Available in Hybrid or AC Coupled Inverter Options**



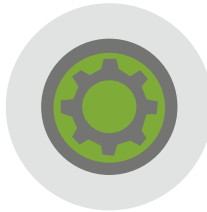
5 Year Warranty  
NRS 097 APPROVED



Local &  
Remote  
Monitoring



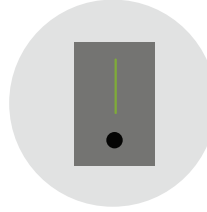
Plug & Play



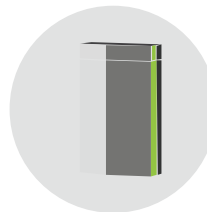
Surge Protection  
Built-in



Expandable  
Storage



Inverter can  
Parallell up  
to 2 units



Battery can  
Parallell up  
to 5 units

## Energy Storage System

GROWCOL hybrid inverter is committed to providing you with a green and intelligent one-stop energy storage solution, which realizes the independent management of photovoltaic power generation, lithium battery storage, smart electricity use, reliable grid connection etc. The compact design saves your use space, while slim appearance fits your home's aesthetics. IP65 protection level and plug and play installation method are suitable for indoor and outdoor installation requirements in various scenes. The scalability of the battery modular system can be expanded to exactly you're your energy storage demand of future.

### Hyper- 5KW/5kWh

Technical Data	GHyper-5000
<b>PV Input Data</b>	
Max. PV Input Power (Wp)	7500
Max. DC Input Voltage (V)	550
Nominal DC Input Voltage (V)	360
MPPT Voltage Range (V)	125-500V
Start-up Voltage (V)	100
No. of MPP Trackers	2
No. of Strings per MPP Trackers	1/1
Max. Input Current (A)	10/10
Max. Short Circuit Current (A)	14/14
<b>AC Input/Output Data</b>	
Nominal AC Power (W)	5000
Max. Apparent Power (VA)	5500
Nominal AC Voltage (V)	230
Nominal AC Voltage Range (V)	180V~264
Nominal AC Current (A)	21,7
Nominal Grid Frequency (Hz)	50/60 (self-adaption)
Nominal Grid Frequency Range (Hz)	50 (±0.2%)/60 (±0.2%)
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
THDi, Rated Power(%)	<3
AC Grid Connection Type	/
Peak Power	1.1 x Pnom, 10 sec; 1.5 x Pnom, 100ms
Automatic Switch Time (ms)	internal switch <10, external switch <100
<b>Efficiency</b>	
MPPT Efficiency(%)	99,9
Max. Efficiency(%)	97,5
Euro Efficiency(%)	97
Battery Charged By PV Max. Efficiency(%)	95
<b>Protection</b>	
PV String Input Reverse Polarity Protection	Integrated
DC Surge Protection	Integrated
AC Surge Protection	Integrated
Output Over Current Protection	Integrated
Output Shorted Protection	Integrated
Output Over Voltage Protection	Integrated
Anti-islanding Protection	Integrated
Insulation Resistor Detection	Integrated
Residual Current Monitoring Unit	Integrated
Ground Fault Monitoring	Integrated
AC Bypass Switch	Integrated

<b>General Data</b>	
Dimensions(WxHxD) (mm)	415*675*145
Weight (kg)	40
Mounting Information	Wall-mounted
Protection Degree	IP65
Cooling	Natural Cooling
Operating Temperature Range (°C)	-20°C to +60°C(up 45°C derating)
Operation Altitude	<2000
Typical Noise Emission(dB)	<30
Relative Humidity	0~100%,no condensation
Night Self Consumption (W)	<1
Display	LCD & LED
Communication	RS485 for Wi-Fi/RS485 for Meter/CAN for BMS/CAN for EV/DRM
Topology	Transformerless
Max.Parallel Connection (pcs)	2

<b>Certifications and Standards</b>	
Safety	IEC62109-1&2, IEC62040-1
EMC	IEC61000-6-1, IEC61000-6-2, IEC61000-6-3, IEC61000-6-4
Grid Regulation	NRS097-2-1
Standard Warranty(years)	5

<b>Battery Data</b>	
<b>Battery Model</b>	<b>GBLF51-5</b>
Battery Type	Lithium-ion(LV)
Cell Type	LFP
Total Energy	5kWh
Max. Depth of Discharge	0,9
Recommended Depth of Discharge	0,8
Nominal Voltage (V)	51.2V
Operating Voltage Range (V)	40-58.4
Nominal Capacity(A)	100Ah
Max. Charge/Discharge Current	50A/100A
Communication with BMS	CAN/RS485
Max. Parallel Number	5 Units
Mounting Information	Mounting Information
Operating Temperature	0~45°C Charge/-10~50°C Discharge
Dimension (W*H*D)	415*665*145mm or 415*620*145mm(for all in one)
Weight	50KG

Warranty	3 +2 Years Standard Warranty
*1 N is the number of battery modules	*2 4600 for VDE 0126-1-1 &VDE-AR-N4105, 4950 for AS4777.2,
*3 21.7A for AS4777.2	4050 for CE10-21
*5 The standard configuration is CAN	*4 Can be reached only if PV and battery power is enough

#### Ingress Protection

##### Remarks:

The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice