GOODISE Smart Energy Innovator

Webinar

The New Hybrid Experience: How GoodWe's ES G2 Series inverter can provide energy autonomy for homeowners







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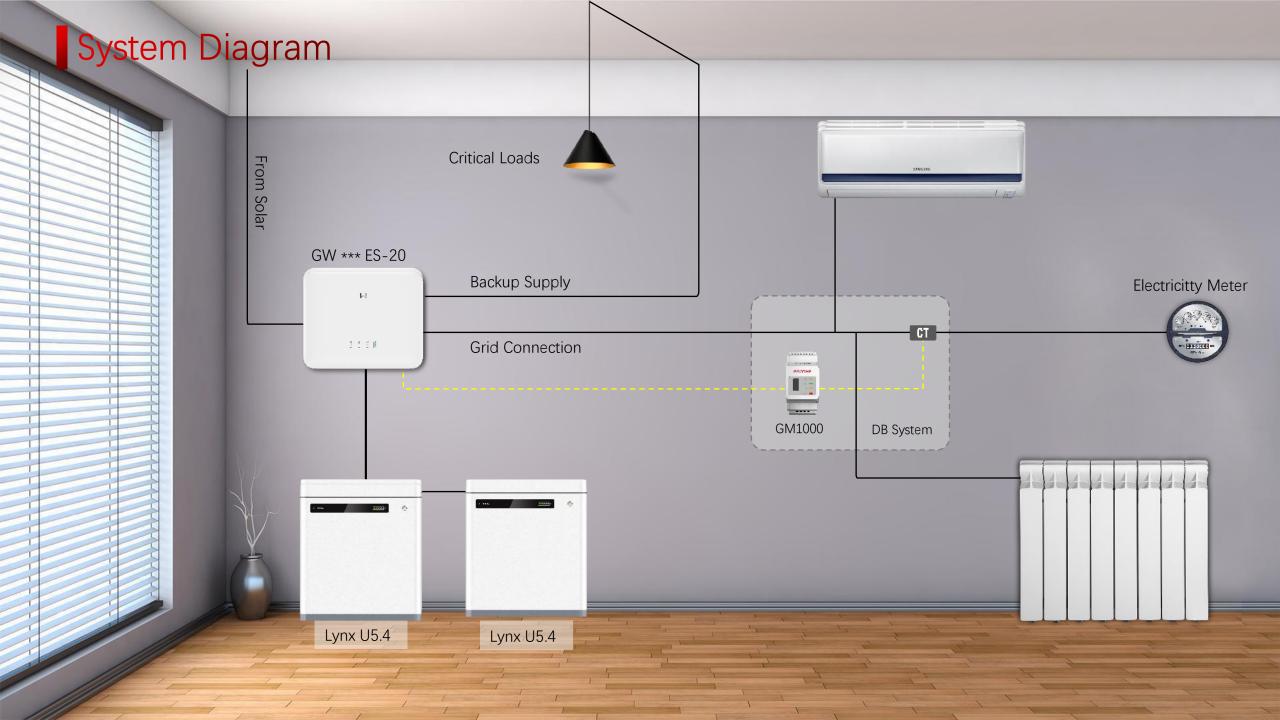




DRIVING THE WORLD'S SMART ENERGY FUTURE

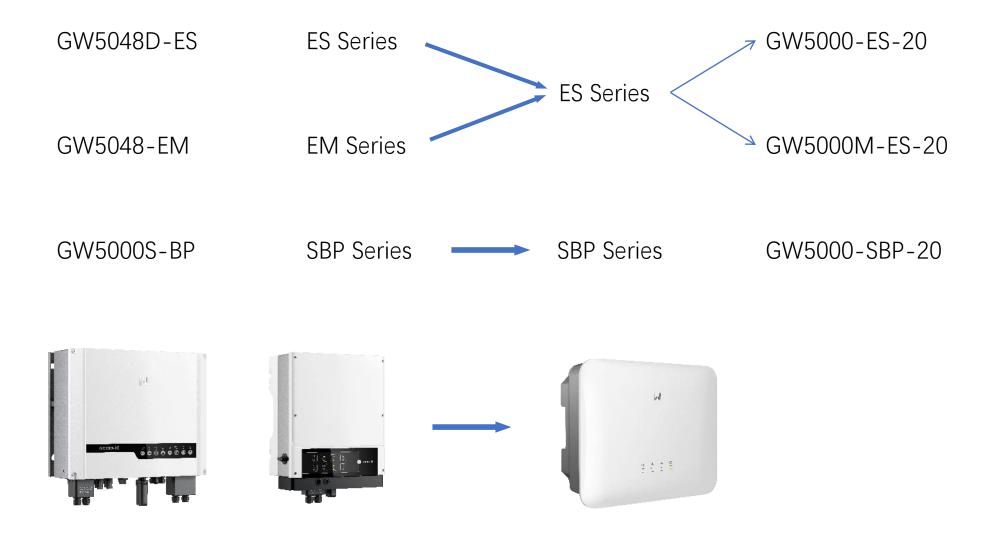
GoodWe PV Tech

The New Hybrid Experience: How GoodWe' ES G2 Series inverter can provide energy autonomy for homeowners



Series Combination





Features



Easy Installation - Plug&Play Design

Easy Commissioning - One APP for All

House Fit-in - Mute and Soft Style

Integrated PV2 Isolator







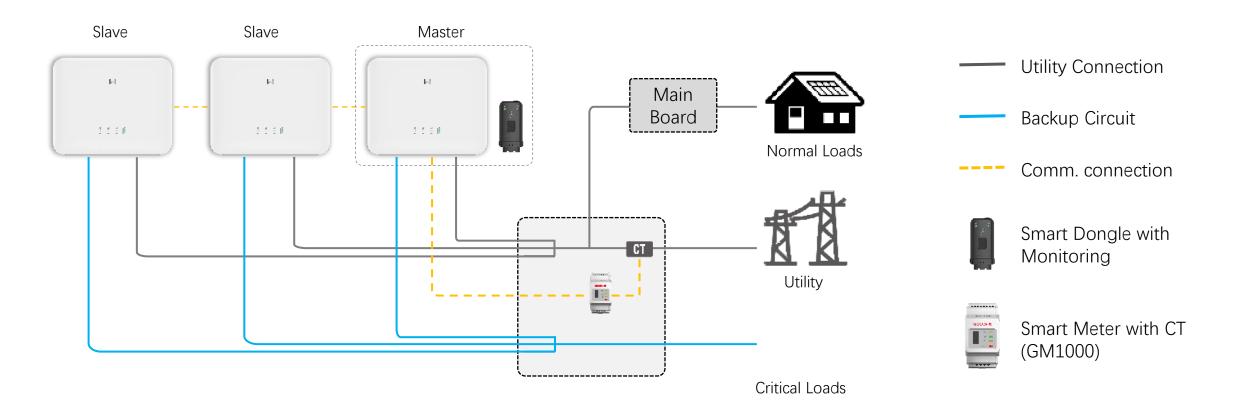
Comparison With G1



Model Name		Generation 1	Generation 2	
		GW5048D-ES	GW5000-ES-20	
Battery Input	Max. Charge/Discharge Current (A)	100	120	
	Max charge power (W)	4,6kW	5000	
	Max discharge power (W)	4,6KW	5300	
	Max. Input Power (W)	6500W	7500W	
	Max. Input Current per MPPT (A)	11	16	
Cuid Outer	Nominal Apparent Power Output to Utility (VA)*3	5000	5000	
Grid Output	Max. Apparent Power from Utility Grid (VA)	6900W	10000W	
5	Max. Continuous Output Power with Grid (VA)	4600W	10000W	
Backup Output	Max. Continuous Output Power (Only Battery) (VA)	4600W	5000W	
	Max. Efficiency	97.60%	97.60%	
Effeciency	European Efficiency	97%	97%	
	Max. Battery to Load Efficiency	94%	>95%	
	DC Surge Arrester	Type 3	Type 2	
Protections	AC Surge Arrester	Type 3	Type 3	
	DC Arc Fault Circuit Interrupter	NA	Optional	
General	Communication with Portal	WiFI/LAN	WiFI/Wifi+LAN/4G	
	Weight (Kg)	28	21.5	
	Dimension (W×H×Dmm)	516*440*184	505.9*434.9*154.8	

Paralleling System

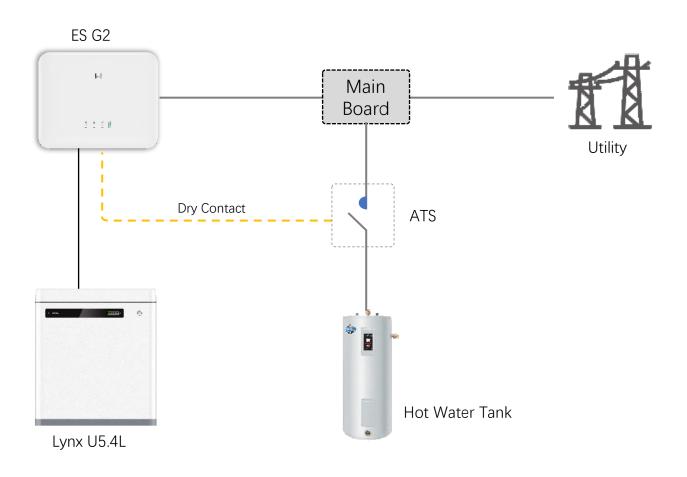


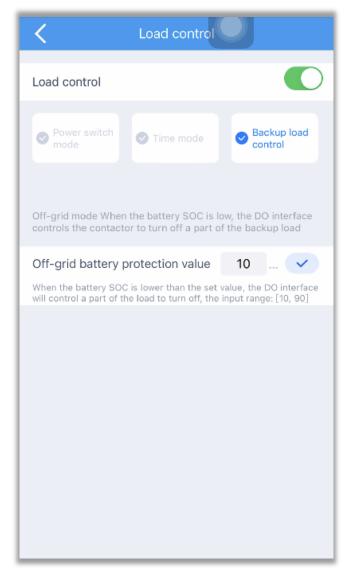


3 pcs could be paralleled, by Master & Slave relationship with smart communication dongle. Slave Inverter in fault mode will **automatically be bypassed**.

Smart Load Control

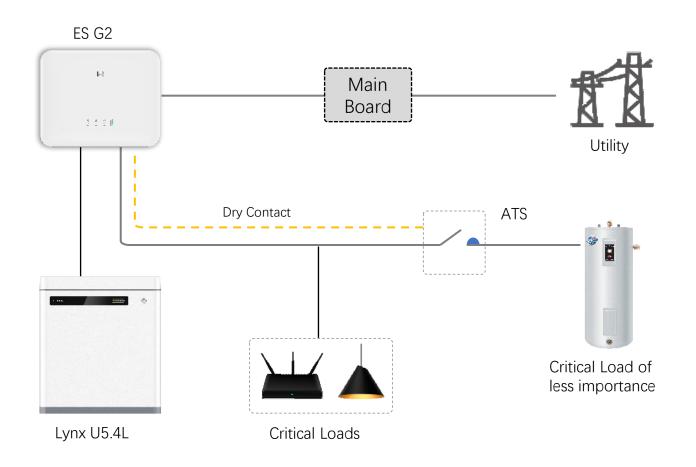


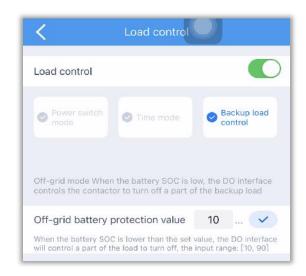


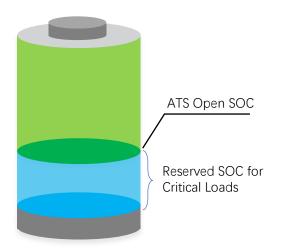


Smart Load Control







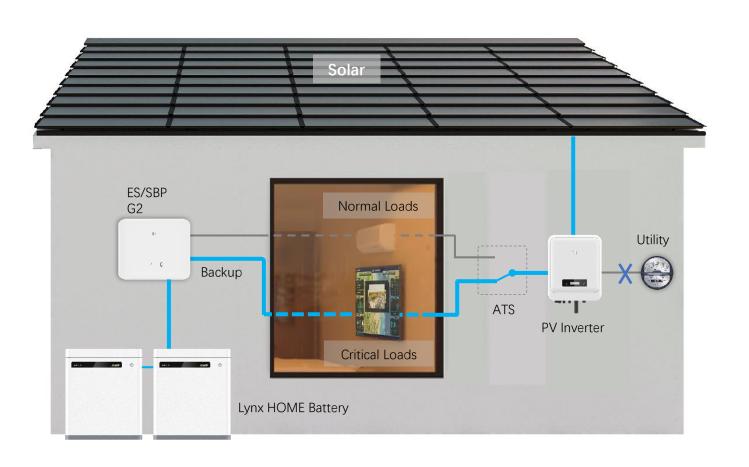


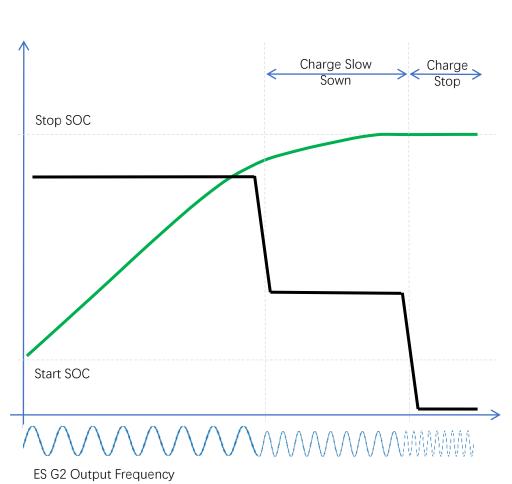
Micro-Grid Integration



Battery SOC

Work with GoodWe 1-P PV inverter according to a fixed curve.

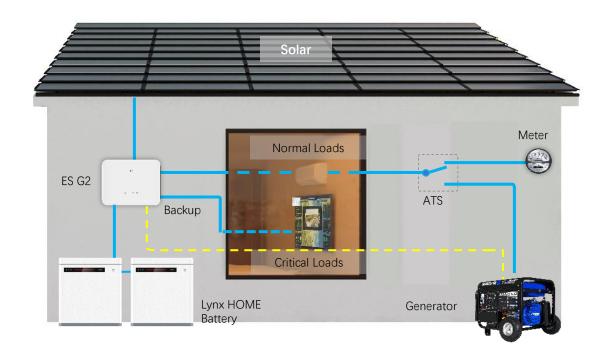




Solar Inverter Output Power

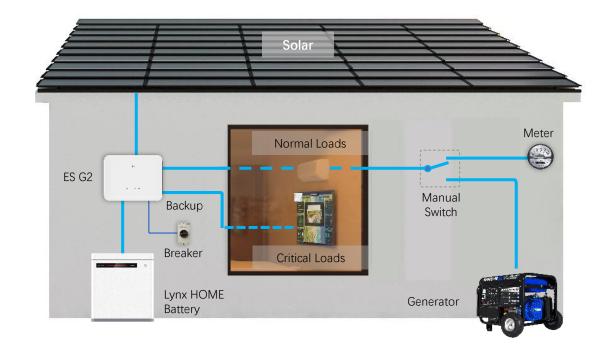
Generator Integration





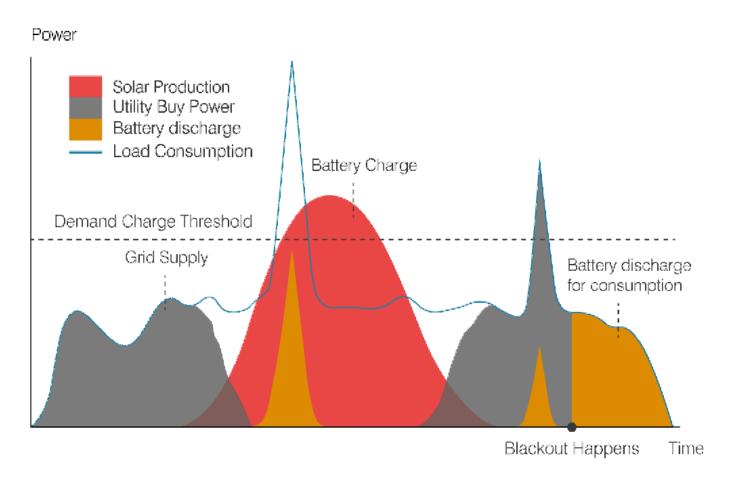
With Auto-detection Switch

With Manual Switch



Operation Modes





Self-Consumption

Maximize self-use of solar and save electricity bill

Time of Use

Set charge/discharge time to maxmize battery benefits according to FiTOU electricity prices

Outage Support

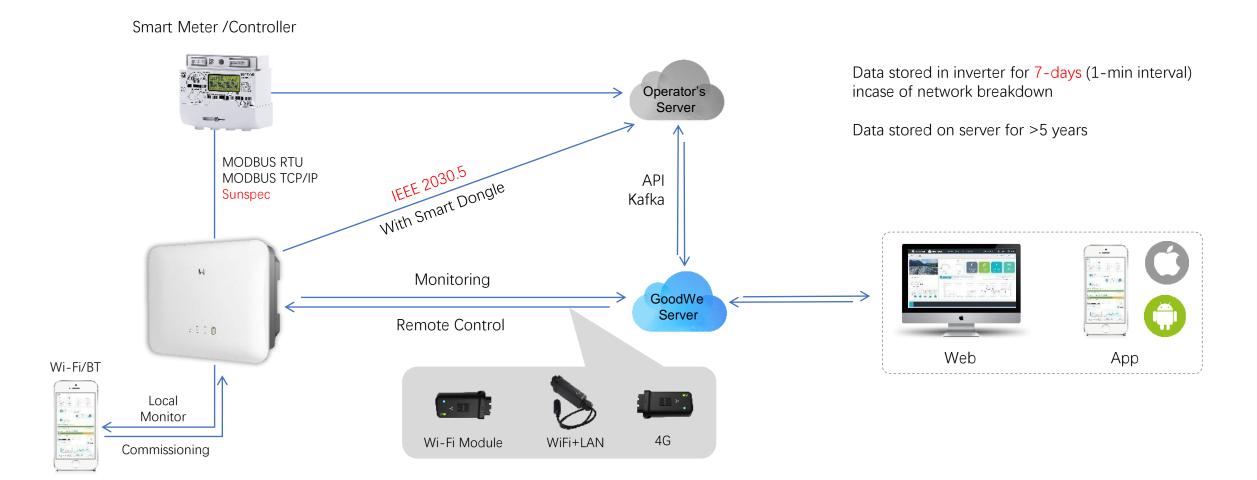
Battery power could be reserved usage during outage

Peak-shaving (New)

To fit in demand charge strategy or to control the max line current at service point

Communication System





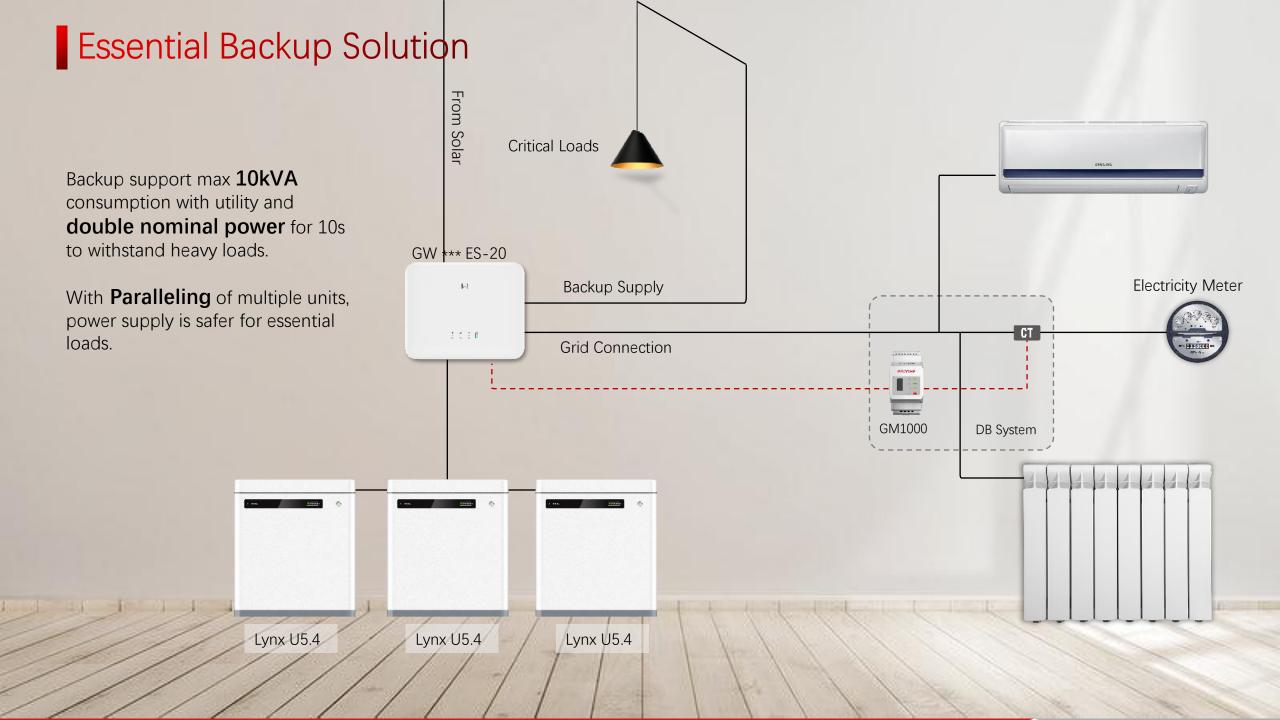
Safety Solution

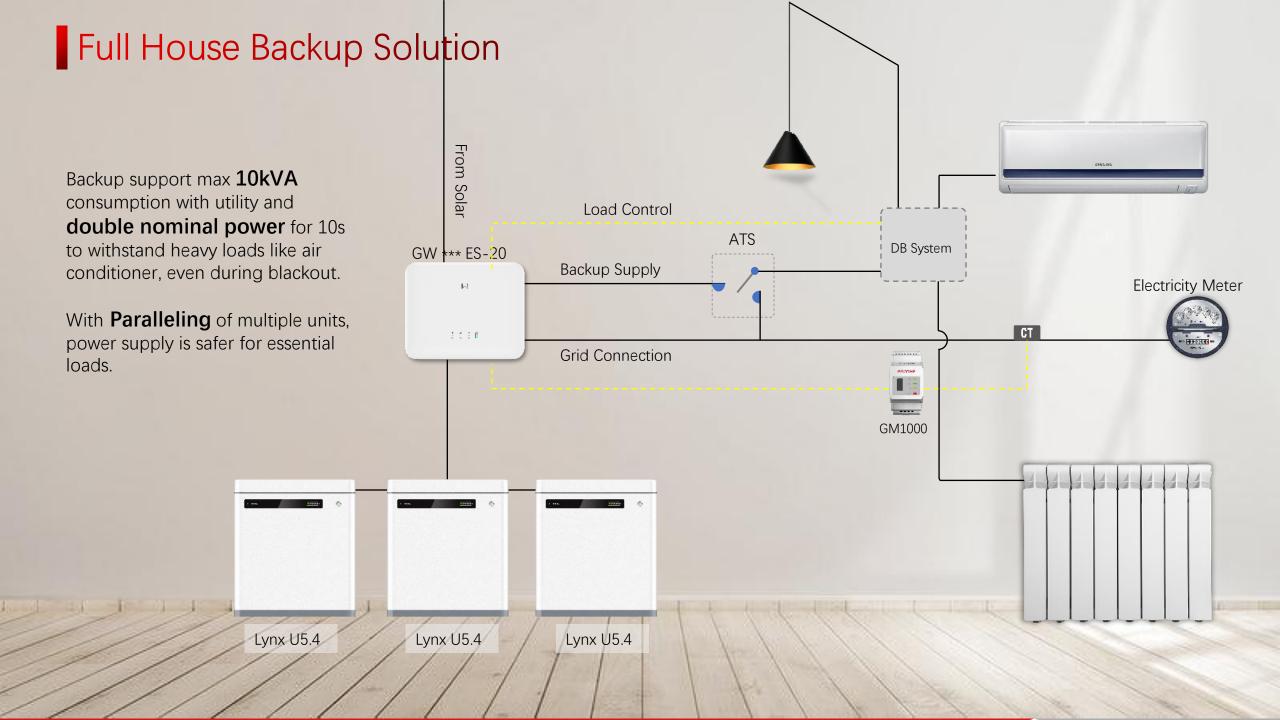




Lightning Protection

Electric Arc Protection

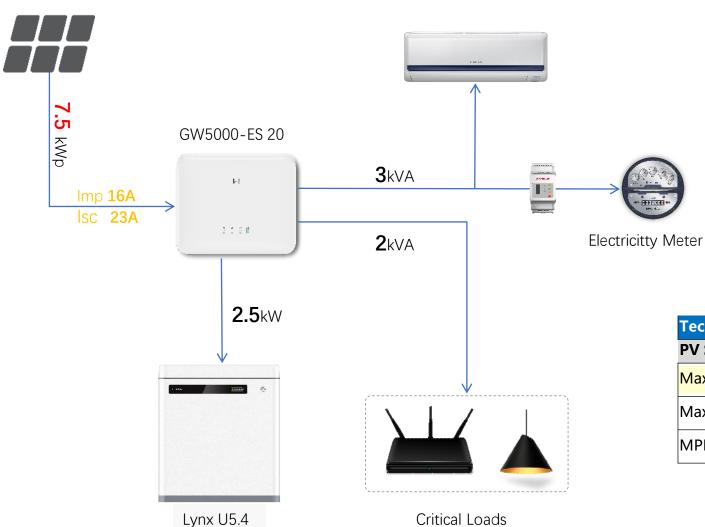




Features - PV Oversizing

More than the capacity you paid





Maximized Usage of the Oversized Solar Capacity

ES G2 inverter support max **1.5*Pn** PV overload ability, which means the access power will charge battery.

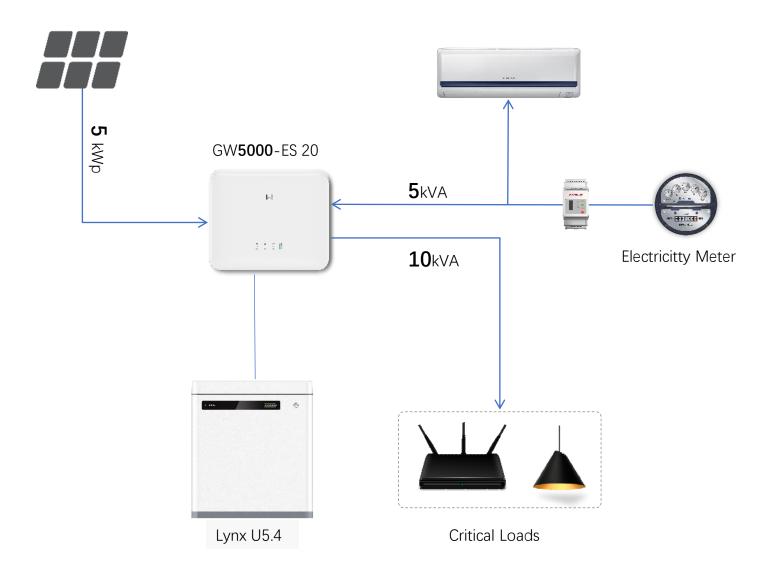
Suitable for large solar Panels (16A/String)

Technical Data	GW5000-ES-20	GW6000-ES-20				
PV String Input Data						
Max. Input Power (W)*2	7,500	9,000				
Max. Input Voltage (V)	600	600				
MPPT Operating Voltage Range (V)	60~550	60~550				

Features - Backup Overloading

More than the capacity you paid





Less Limited for Whole-Home Backup Usage

ES G2 inverter support max **double nominal power** output with grid available.

And 2*np for 10s output without utility

Compatible Batteries















Function	GoodWe Lynx U	LG RESU LV	BYD Box Flex Lite	Pylontech Force L1/L2	Dyness Powerbox
Operation Data	Yes	Yes	Yes	Yes	Yes
Paralleling	Up to 32.4kWh	Up to 24kWh	Up to 320kWh	Up to 24kWh	Up to 38kWh
BMS Update	Yes	Yes	No	No	No
Throughput Energy	Yes	No	No	No	No

Compatible Batteries















Function	Solar MD SS	Freedom Won	Blue Nova	WECO	UZ Energy
Operation Data	Yes	Yes	Yes	Yes	Yes
Paralleling	Up to 22,2kWh	Up to 80kWh	Up to 46,8KWh	Up to 79,5kWh	Up to 80kWh
BMS Update	No	No	No	No	No
Throughput Energy	No	No	No	No	No

Firsthand Experience installing the ES G2 6KW

















THANK YOU sales.africa@goodwe.com