



Easy Installation

- Efficient commissioning process via the smartphone app
- Plug and play installation
- Lightweight and compact

Ultra Intelligent

- Multiple operating modes with integrated intelligent EMS
- Suitable for both retrofitting and new installations
- Real time data monitoring with intelligent monitoring system

Durable & Reliable

- IP66 rating, suitable for indoor and outdoor installation
- Integrated blackout protection with built-in EPS
- Integrated DC & AC SPD

More Revenue

- Up to 16A PV input, Compatible with high current PV panels
- Up to 200% PV power for more energy
- Low start-up voltage for longer PV power generation

Datasheet	CGH S3.6L	CGH S4.6L	CGH S5.0L	CGH S6.0L
Battery Input Data				
Battery Type	Lithium-ion			
Rated Battery Voltage	48V			
Battery Voltage Range	40-60V			
Max. Charging / Discharging Power	3600W / 3600W	4600W / 4600W	5000W / 5000W	
Max. Charging Current	80A	100A		
Max. Discharging Current	80A	100A		
Communication With BMS	CAN, RS485			
PV Input Data				
Max. Input Power	7200W	9200W	10000W	12000W
Max. Input Voltage	600V			
Start-up Voltage	50V			
Rated Input Voltage	360V			
MPPT Operating Voltage Range	60-550V			
MPPT number / Input strings number per MPPT	2 / 1			
Max. Input Current per MPPT	16A / 16A			
Max. Input Short Circuit Current per MPPT	23A /23A			
AC Output Data(On Grid)				
Rated Apparent Power Output to Grid	3600VA	4600VA	5000VA	6000VA
Max. Apparent Power Output to Grid	3600VA	4600VA	5000VA	6000VA
Max. Apparent Power from Grid	7200VA	9200VA	10000VA	
Rated AC Current Output to Grid	15.7A	20A	21.7A	26.1A
Max. AC Current Output to Grid	15.7A	20A	22.7A	27.3A
Max. AC Current from Grid	31.4A	40A	43.5A	
Rated Grid Voltage	L / N / PE, 220V / 230V / 240V			
Grid Voltage Range	170-280Vac (According to local standard)			
Rated Frequency	50Hz / 60Hz			
Output THDi (@Nominal output)	< 3%			
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)			
AC Output Data(Backup)				
Rated Apparent Power	3600VA	4600VA	5000VA	6000VA
Max. Apparent Power	3600VA	4600VA	5000VA	6000VA
Peak Output Apparent Power, Duration	5400VA, 60s	6900VA, 60s	7500VA, 60s	9000VA, 60s
Max. Output Current	15.7A	20A	22.7A	27.3A
Rated Voltage, Frequency	220V / 230V / 240V, 50 / 60Hz			
THDv (@Liner load)	< 2%			
Switch Time	≤ 10ms			
Efficiency				
Max. Efficiency	97.1%			
European Efficiency	96.7%			
BAT Charged by PV / AC Max. Efficiency	96.4% / 95.0%			
BAT Discharged to AC Max. Efficiency	95.0%			
Protection				
PV Reverse Polarity Protection	Yes			
PV Insulation Resistance Detection	Yes			
Anti-islanding Protection	Yes			
AC Over Voltage Protection	Yes			
AC Over current protection	Yes			
AC Short Circuit Protection	Yes			
Leakage Current Monitoring	Yes			
DC Switch (Solar)	Yes			
Overvoltage category	DC: Type II, AC: Type III			
AFCI	Optional			
General Data				
Operating Ambient temperature range	-25°C - +60°C			
Standby self-consumption	< 15W			
Topology	High Frequency Insolation (for Battery)			
IP Rating	IP66			
Relative Humidity	0-100% (Non-condensing)			
Communication	Wifi / 4G (optional), RS485, CAN			
Max. Operation Altitude	3000m (>2000m deratings)			
Weight	25kg			
Cooling Method	Natural Convection			
Dimension (W*H*D)	520*420*224mm			
Mounting Method	Wall Mounted			
Display	LED Indicators, Bluetooth+APP			
Standards	EN 61000-6-1, EN 61000-6-3, IEC 62109-1 / 2, AS / NZS 4772: 2024, G98 G99, PEA, MFA			