



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

Specifications



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	3680W / 3680W	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	7360W	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	3680VA	4600VA	5000VA	6000VA
Max. Apparent Power Output to Grid	3680VA	4600VA	5000VA	6000VA
Max. Apparent Power from Grid	7360VA	9200VA		10000VA
Rated AC Current Output to Grid	16A	20.9A	21.7A	26.1A
Max. AC Current Output to Grid	16A	20.9A	22.7A	27.3A
Max. AC Current from Grid	32A	41.8A		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	3680VA	4600VA	5000VA	6000VA
Max. Apparent Power	3680VA	4600VA	5000VA	6000VA
Peak Output Apparent Power, Duration	5520VA, 60s	6900VA, 60s	7500VA, 60s	9000VA, 60s
Max. Output Current	16A	20.9A	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			23kg	
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 4777.2: 2024, G98 / G99, VDE 4105, EN 50549-1, PEA, MEA	