

Single Phase Hybrid Inverter

CVGxST (3.6kW/4.6kW/5kW/6kW)

Features

Excellent Power Performance

- Max. 9000Wp Oversized PV Input Power.
- Maximum efficiency 97.3%, battery efficiency 94.3%.
- Large MPPT current, compatible with high-power solar panels.
- Backup transfering time typically less than 10ms

Full Protections

- Class I protection Category
- Overvoltage/Undervoltage Protection
- Overcurrent/Shotcircuit Protection, DC Reverse, Leakage Current Protection
- Anti-islanding, Surge Arrester, PV Insulation Detection

Environmental Adaptive

- IP65 protection for indoor and outdoor
- Operating temperature -25℃ ~ 60℃
- Ultal quiet with Natural Cooling

Smart Management

- Multiple working modes built-in
- Quick Commission through App
- Realtime management anywhere
- Easy maintanance from Cloud Platform

Quallity Guarrenteed

- 5 Year Warranty (10 year optional)

STRONG ENERGY

Single Phase Hybrid Inverter

PRODUCT DATASHEET (3.6kW / 4.6W / 5kW / 6kW)

Inverter

	MODEL	CVG5ST-3K6	CVG6ST-4K6W	CVG1ST-5KW	CVGBST-6KW
On-Grid AC	Nominal AC Output Power	3,600W	4,600W	5,000W	6,000W
	Max. AC Apparent Power	3,980VA	4,600VA	5,500VA	6,000VA
	Max. AC Output Current	18A	22A	25A	27.2A
	Nominal Grid Voltage	220V/230V, L+N+PE			
	Grid Voltage Range	150V ~ 300V (adjustable)			
	Nominal Output Frequency	50Hz / 60Hz			
Off-Grid AC	Nominal AC Output Power (Off-grid)	3,600W	4,600W	5,000W	6,000W
	Nominal Output Current (Off-grid)	13A	20A	21.7A	26A
	Nominal Output Voltage (Off-grid)	220V/230V, L+N+PE			
	Nominal Output Frequency (Off-grid)	50Hz / 60Hz			
	Transfer Time	< 10ms (tipical)			
PV Input	Max. PV Input Power	6,300Wp	9,000Wp		
	MPPT Voltage Range	90V ~ 520V			
	Max. PV Voltage	550V			
	Start-up Voltage	90V			
	No. of MPPT	2			
	Max. PV Input Current per MPPT	15A / 15A			
	Max. Short Circuit Current per MPPT	20A / 20A			
Battery	Battery Voltage Range	40V ~ 65V			
	Max. Charge/Discharge Current	60A / 60A	120A / 120A		
	Max. Charge/Discharge Power	3,000W / 3,000W	6,000W / 6,000W		
General	Efficiency	Max. (PV to AC): 97.3% Euro. (PV to AC): 96.8% Max. (BAT to AC): 94.3%			
	Protection Category	Class I			
	Protections	Anti-islanding, AC Over Voltage/Current Protection, AC Short-circuit, DC Reverse, Leakage Current, PV Insulation Detection, SPD DC Type II, AC Type III			
	Display & Management	LCD & Wireless & APP & Cloud			
	Cooling Method	Netural Cooling			
	Ingress Protection	IP65			
	Operating Temperature	-25℃ ~ 60℃ (>45℃ derating)			
	Operating Humidity	0% ~ 100%			
	Dimension (W*H*D)	585mm*485mm*181mm			
	Weight	25kg			
	Certifications	IEC62109, EN50549-1, VDE-4105, NRS-097, GB98/ GB99, EMC, RoHs			