



- Upgrading a grid-tied system to an energy storage system
- 120/240VAC on/off-grid output
- AFCI on battery side

## Secure Sustainable Power Supply

- Micro-grid application
- Full backup capacity up to 9.6kW
- Compatible with diesel generators

Discover this unique split-phase AC Retrofit inverter that is compatible with high voltage (80-495V) batteries and has a power capacity ranging from 5kW to 9.6kW. Homeowners can simply upgrade their existing PV system for maximizing generation and self-consumption in comfort and security. Intelligent mechanisms are timely activated to ensure power supply to critical loads when most needed. This inverter also supports micro-grid applications, ensuring the grid-tied inverter stays connected in case of grid outage. AFCI (Arc-fault current interrupter) for battery side ensures battery safety, offering freedom and security all in one.



## **GEC 5-9.6kW**

## Split-phase AC Retrofit

Technical Data	GEC5.0-1U-US10	GEC6.0-1U-US10	GEC7.0-1U-US10	GEC7.6-1U-US10	GEC8.6-1U-US10	GEC9.6-1U-US	
Battery Input Data							
Battery Type	Li-lon						
Nominal Battery Voltage (V)	300						
Battery Voltage Range (V)*1	80 ~ 495						
Max. Continuous Charging Current (A)	50						
Max. Continuous Discharging Current (A)	50						
Max. Charge Power (W)	5000	6000	7000	7600	8600	9600	
Max. Discharge Power (W)	5000	6000	7000	7600	8600	9600	
AC Output Data (On-grid)							
Nominal Apparent Power Output to Utility Grid (VA)	5000	6000	7000	7600	8600	9600	
Max. Apparent Power Output to Utility Grid (VA)	5000	6000	7000	7600	8600	9600	
Max. Apparent Power from Utility Grid (VA)	6000	7200	8400	9120	9600	9600	
Nominal Output Voltage (V)	120 / 240						
Nominal AC Grid Frequency (Hz)	60						
Max. AC Current Output to Utility Grid (A)	20.8	25	29.2	31.7	35.8	40	
Max. AC Current From Utility Grid (A)	25	30	35	38	40	40	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
Max. Total Harmonic Distortion	<3%						
AC Output Data (Back-up)	I						
Back-up Nominal Apparent Power (VA)	5000	6000	7000	7600	8600	9600	
Max. Output Apparent Power (VA)	5000	6000	7000	7600	8600	9600	
Peak Output Apparent Power (VA)*2	6000, 60sec	7200, 60sec	8400, 60sec	9120, 60sec	10320, 60sec	11520, 60se	
Max. Output Current (A)	20.8	25	29.2	31.7	35.8	40	
Nominal Output Voltage (V)	120 / 240						
Nominal Output Frequency (Hz)	60						
Output THDv (@Linear Load)	<3%						
Efficiency				70			
Max. Battery to Load Efficiency			96.0	3%			
Protection				<i>5</i> ,			
Anti-islanding Protection	Integrated						
DC Reverse Polarity Protection	Integrated						
AC Overcurrent Protection	Integrated						
AC Short Circuit Protection	Integrated						
AC Overvoltage Protection							
AC Surge Arrester	Integrated Type III						
General Data			тур	z III			
Operating Temperature Range (°F)			21°E ~ 140°E />	112°E doroting)			
Relative Humidity	-31°F ~ 140°F (>113°F derating) 0~95%						
Max. Operating Altitude (ft)	13124 ft (>9843 ft derating)						
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Cooling Method	Smart Fan Cooling WiFi + APP, LED						
User Interface							
Communication with BMS	RS485; CAN						
Communication with Meter	RS485						
Communication with Portal	Wi-Fi; 4G*4 (Optional)						
Weight (lb)	62.85 70.55						
Dimension (W × H × D in)	16.3 × 33.1 × 6.9						
Topology	Transformerless						
Night Power Consumption (W)*3	<20						
DC Connector	MC32*1.5						
AC Connector		MC32*1.5					
Protective Class	Type 4X						
Storage Environments	-40°F ~ +185°F, 0 - 95%RH, 13124 ft						
Mounting Method	Wall Bracket						

<sup>\*1:</sup> Battery discharge/charge power limited by voltage.
\*2: Can be reached only if battery power is enough.
\*3: No Back-up Output.
\*4: Estimated launch date: 31/12/2021.
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