



Image shown may not reflect actual configuration

## Cat® Energy Time Shift System

50 kW, 50 kWh-500 kWh  
 250 kW, 250 kWh-625 kWh  
 50 Hz 380/400/415 Volt  
 60 Hz 480 Volt

The Cat® Energy Time Shift System is a scalable, rapidly deployable energy storage system. Energy storage systems can integrate with solar or other renewable sources to store energy from the over production of the renewable source for use when the renewable source is not available. Cat energy storage systems can also provide temporary backup power to facilities in the event of a power outage.

## Features

### Reliable Energy Storage

The Cat Energy Time Shift System is a robust, saleable energy storage system. The energy storage module consists of a pre-engineered container that can be easily installed on site.

### Scalable Energy Storage

Multiple energy storage modules can be operated in parallel to provide increased power output and/or increase the battery kWh capacity.

### Renewable Integration

The energy storage modules are designed to work with an array of renewable systems, including solar and wind. When added to a renewable system, the energy storage module can provide bridging power during periods of renewable power unavailability.

### BDP Bi-directional Inverters

The Cat BDP bi-directional inverters are the core to the energy storage module. Based on technology developed for Cat electric drive machines, the Cat BDP provides exceptional reliability and durability. It provides built-in intelligent controls for the charging and discharging of the energy storage equipment.

### Energy Storage

The energy storage consists of advanced lithium-ion batteries that provide good energy density, high discharge/recharge efficiency and high cycle life.

### Standard Equipment

- Cat BDP bi-directional inverters
- Energy storage batteries
- Color HMI touchscreen
- Remote communications via Modbus TCP
- HVAC system to maintain 15°C-27°C (60°F-80°F) interior temperatures
- Interior AC lighting and convenience receptacles
- Fire suppression system

Output Specifications		
Rated Power	50 kW @ 0.8 pf	250 kW @ 0.8 pf
Rated Energy	50 kWh-500 kWh	250 kWh-625 kWh
Output Voltage	50 Hz: 380V-415V 60 Hz: 480V	
Overload Capability	125% for 10 minutes 150% for 10 seconds	
Ambient	-40°C to 50°C	
Dimensions		
Length	6.1 m (20 ft)	
Width	2.4 m (10 ft)	
Height	3.0 m (8 ft)	

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)

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### Questions? Contact:

Meghan E. Dutton  
 Renewable Energy Segment Manager  
 Office: 801.978.1584 | Mobile: 801.657.1221  
 E-mail: mdutton@wheelercat.com