Microgrid
Hybrid Power Module



Image shown may not reflect actual configuration

Cat® Hybrid Power Module

The Cat® hybrid power module is designed for immediate power for disaster relief, military applications, small villages, and construction sites. It provides renewable energy in a single module that can be quickly dispatched to site. The module contains photovoltaic modules as the primary power source with energy storage and a standby generator set for power when PV energy is not available.

Features

Photovoltaic Modules
The primary power source for the module is the thirty-six PVC295 PV modules that provide up to 10.62 kWp DC power. The modules are auto-deployed to reduce site set up time and can be retracted at night and locked for increased security.

Energy Storage
The hybrid module includes up to 78 kWh of energy storage to provide short duration energy in the event that the PV modules are unable to provide sufficient power for the load.

Bi-directional Inverter
The Cat BDP50 provides reliable power conversion with the same power electronics and controls found on the Cat D7E electric drive track-type tractor. Energy storage management is provided by intelligent controls for charging, discharging, equalization, and state of charge estimation for the batteries.

Synchronous Diesel Generator Set
In the event that the PV system is not producing reliable energy for the load, the diesel generator set will automatically start to supplement the power demands.

Worldwide Product Support
Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries.

Output Specifications (60 Hz)		
	Power	**Voltage**
PV	10.62 kWp	480/277V
Generator Set	20 to 100 kW	

Output Specifications (50 Hz)		
	Power	**Voltage**
PV	10.62 kWp	380/220V 400/230V 415/240V
Generator Set	20 to 100 kVA	

Dimensions (shipping)		
Length	6.1 m	20 ft
Width	2.4 m	8 ft
Height	2.4 m	8 ft

Dimensions (panels deployed)		
Length	12.2 m	40 ft 2 in
Width	5.9 m	19 ft 6 in
Height	3.4 m	11 ft

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