

# Wind Turbine

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# Wind Turbine

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## Power MOSFETS

- High Voltage MOSFETS
- High Power Modules
- Diodes, Rectifiers
- Power Capacitors
- Crowbar Resistors
- Thermistors
- Solid State Relays
- Optical Isolators
- Inductors/ EMI Filters
- Shunt Resistors
- ESD Protection
- LDOs
- Communications Interface Ics
- Transient/Overvoltage Protection Devices

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## Application Overview

A wind turbine is a device that converts kinetic energy from wind into mechanical energy that is used to drive a generator to produce electricity. Large grid-connected arrays of turbines are becoming an increasingly important source of commercial electric power. Wind turbine systems are usually generators with more than 2 MW of power and typically variable speed types. Solid-state power converters are used to interface the generator and power transmission system. Conversion efficiency, high reliability, and low maintenance are typical requirements for these systems. In addition, all wind turbine systems must be equipped with safety systems to prevent damage due to high wind speed or any other grid- or system-related problems.

## Wind Turbine : AC / Grid Filter, Filter Power Resistor

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### Power Resistor

Product Name	Status	Description	Features	Package	Q-Level
LPS800	NEW	Thick Film High Power Resistor for Heatsink Mounting	800W@85°C Tcase Non inductive Low thermal radiation	HeatSink Mount 57x50x25.8	

## Wind Turbine : Blade Pitch Control, Motor Control

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### Motor Drive

Product Name	Status	Description	Features	Package	Q-Level
VS -VSKDS409/150	NEW	Power Modules Schottky Rectifier, 200 A ADD-A-PAK - 2 diodes in series Generation VII construction	IF(AV)=200A IFSM=20KAmp	MODULE ADD-A-PAK	

## Wind Turbine : Condition Monitoring, Grid Quality

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### Voltage Sensor

Product Name	Status	Description	Features	Package	Q-Level
SMM0204		Thin Film Mini-MELF Resistors Excellent stability and pulse handling Advanced thin film technology	Low TCR 15ppm - 50ppm High Pulse Load	SMD MELF 0204	AEC-Q

## Wind Turbine : Power Converter / Main Inverter, Crowbar Unit

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### Crowbar Resistor

Product Name	Status	Description	Features	Package	Q-Level
ULDRCR	NEW	Stainless Steel Braking/Crowbar Resist Modular system - user expandable High pulse energy capability up to 3.5MJ	R Value 5m $\Omega$ to 120m $\Omega$ Top: - 55 °C to + 375 °C TCR 900ppm/K	Rack Mount	

