

# PCS 1500G Pitch Control Slipring For GE 1.5MW Wind Turbines



## Direct Slip Ring Replacement

If you operate the \*GE 1.5MW wind turbine, Conductix-Wampfler now offers a direct replacement pitch control slip ring for this wind turbine with a 20 year lifetime and 4 year warranty.

Conductix-Wampfler's unit provides direct connection to the gearbox with wire terminal connections in both the stator and rotor junction boxes. Each unit is provided with a heater already installed for cold weather installations.

With over 12,000 turbines in operation worldwide, this GE series continues to be one of the world's most widely used wind turbines in its class.

### Benefits

- Design Lifetime 20 years
- > 100 million revolutions
- High reliability – 4 year warranty
- Minimal wear debris generation
- No lubrication required
- Wide operating temperature
- No periodic inspections required
- Lower life cycle cost

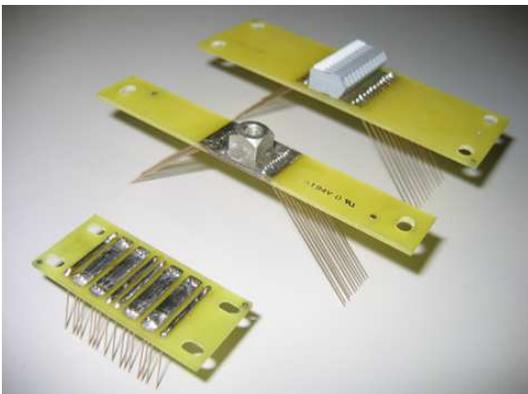
*\*GE Energy is one of the world's leading suppliers of power generation and energy delivery technologies*



- 12,000+ turbines in operation worldwide
  - 19 countries
  - 170+ million operating hours
  - 100,000+ GWh produced
- Data as of March, 2009

## Description

Wind turbines require reliable transmission of power and data signals from the nacelle to the control system for the rotary blades. Conductix-Wampfler slip rings provide the performance and quality needed in such demanding and safety-critical environments. Costly downtime is eliminated by using gold-alloy wire contacts and robust mechanical components in the slip ring design.



## Gold-Wire Contacts

The unique feature of the gold-wire contact technology is its ability to perform in environmental and operational extremes. In addition, the gold-wire contacts have the capability to handle high power while at the same time transferring data signals. And all this performance while maintenance free for over 100 million revolutions.

**PCS 1500G**  
**Pitch Control Slipring**  
**For GE 1.5MW Wind Turbines**



<b>General Specifications:</b>	
Weight (typical)	60lbs (32kg)
Brush Material	Gold Alloy Wire
Ring Material	Gold Plate
Brush Life	> 100 million revolutions
Ring Life	> 100 million revolutions
Lubrication	No lubrication required
Cleaning / Maintenance Interval	No maintenance required
Power Circuit Rating	65 – 100A at 600V (* depending on specification)
Data Circuits	Up to 100 Mbps
Operating Temperature	-40°C to +80°C
Heating Element	100 watt, 120 / 240 volts standard
Protection	IP 54

<b>Ring Specifications:</b>					
	<b>Group 1 Main Power</b>	<b>Group 2 Aux Power</b>	<b>Group 3 Signals</b>	<b>Group 4 Data</b>	<b>Group 5 Heater</b>
Circuit Numbers	PE, L1, L2, L3, N	1PE, 1L1, 1L2, 1L3, 1N	1 - 10	11 - 25	26 - 27
Number of Circuits	5	5	11	15	2
Nominal Current	65A	16A	16A	Data	1A
Max. Operating Voltage	600 V	600 V	110-230 V	24 VDC	120V
Wire Gauge	10mm <sup>2</sup> 6 AWG	2.5mm <sup>2</sup> 16 AWG	2.5mm <sup>2</sup> 16 AWG	1mm <sup>2</sup> 24AWG	1mm <sup>2</sup> 24AWG

This unit is configured as standard with a thermostatic 100W, 120VAC heater for cold weather operation.