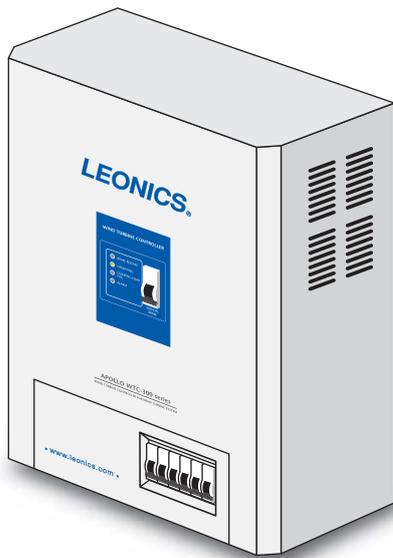
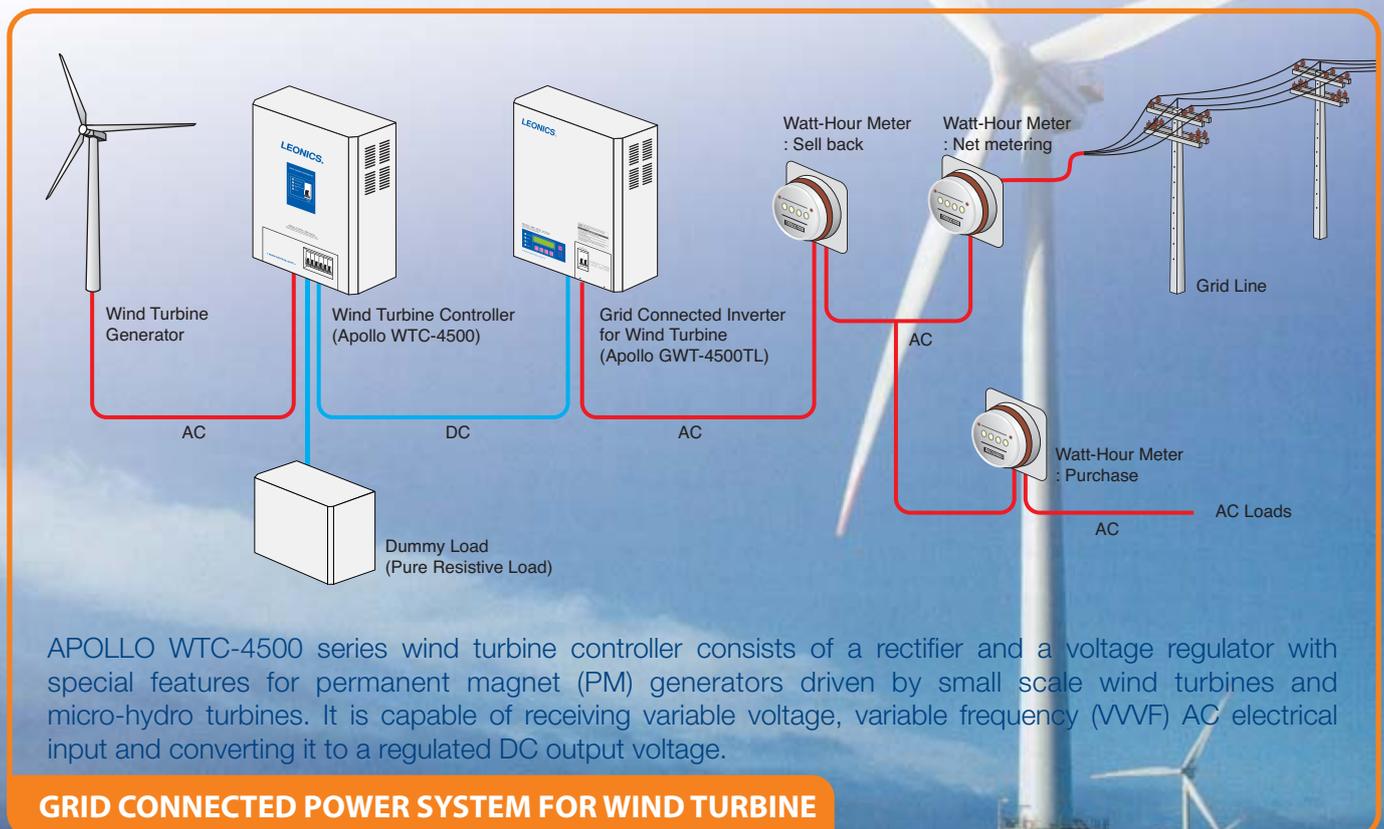


APOLLO WTC-4500

WIND TURBINE CONTROLLER



- Pulse Width Modulation (PWM) technology
- Operation with wind turbine generator and dummy load (pure resistive load)
- Communication interface with RS-232 serial port and alarm dry contact
- Low power consumption
- Wall mount and 19 inch rack mount 5U case
- Over voltage brake by short circuit wind turbine generator (without brake is option)
- Digital Input Signal (option)
- Real time monitoring software (option)
- ISO 9001:2008 and ISO 14001 certified factory



APOLLO WTC-4500 series wind turbine controller consists of a rectifier and a voltage regulator with special features for permanent magnet (PM) generators driven by small scale wind turbines and micro-hydro turbines. It is capable of receiving variable voltage, variable frequency (VVVF) AC electrical input and converting it to a regulated DC output voltage.

GRID CONNECTED POWER SYSTEM FOR WIND TURBINE

APOLLO WTC-4500 series

WIND TURBINE CONTROLLER

SPECIFICATIONS

MODEL		WTC-4500	WTC-4500/RM*
Recommend to use with grid connected inverter		GWT-4500TL	GWT-4500TL/RM*
RATED POWER		6 kW	
SYSTEM	Technology	Plus Width Modulation (PWM) technology	
AC INPUT	Nominal voltage	220 - 240 Vac	
POWER SUPPLY	Voltage range	176 - 265 Vac	
	Frequency range	45 - 70 Hz	
	Phase connected	Single phase	
WIND TURBINE GENERATOR	Power rating	6 kW	
	Type	Three phase permanent magnet	
	Nominal voltage	300 Vac (3 phases 3 wires)	
	Peak voltage	350 Vac	
OUTPUT	Output voltage	170 - 500 Vdc	
	Output voltage limit	450 - 500 Vdc	
RECOMMENDED DUMMY LOAD	Pure resistive load	6 kW	
	Voltage range	440 - 480 Vac / use 2 unit of heater 220 Vac in series	
POWER CONSUMPTION		4 W	
INDICATOR	LED	Brake release Operating Dumping Load Fail Alarm (overload, hight temperature, over temperature, over voltage)	
COMMUNICATION INTERFACE	DB-9 connector	RS-232 serial interface port	
	Dry contact	Alarm, short circuit brake release, control	
INPUT SIGNAL		Digital signal (option)	
ENVIRONMENT	Temperature	0 - 45°C	
	Humidity	0 - 95 % (Non - condensing)	
DIMENSION	W x H x D (approx. in cm)	30 x 15.5 x 37	48.2 x 22.2 x 55.1
WEIGHT	Approximate in kg.	13 kg.	17.5 kg.

* The rack mount case models are not included the floor standing rack mount enclosure.
Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

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