

APOLLO GWT-300

GRID CONNECTED INVERTER FOR WIND TURBINE

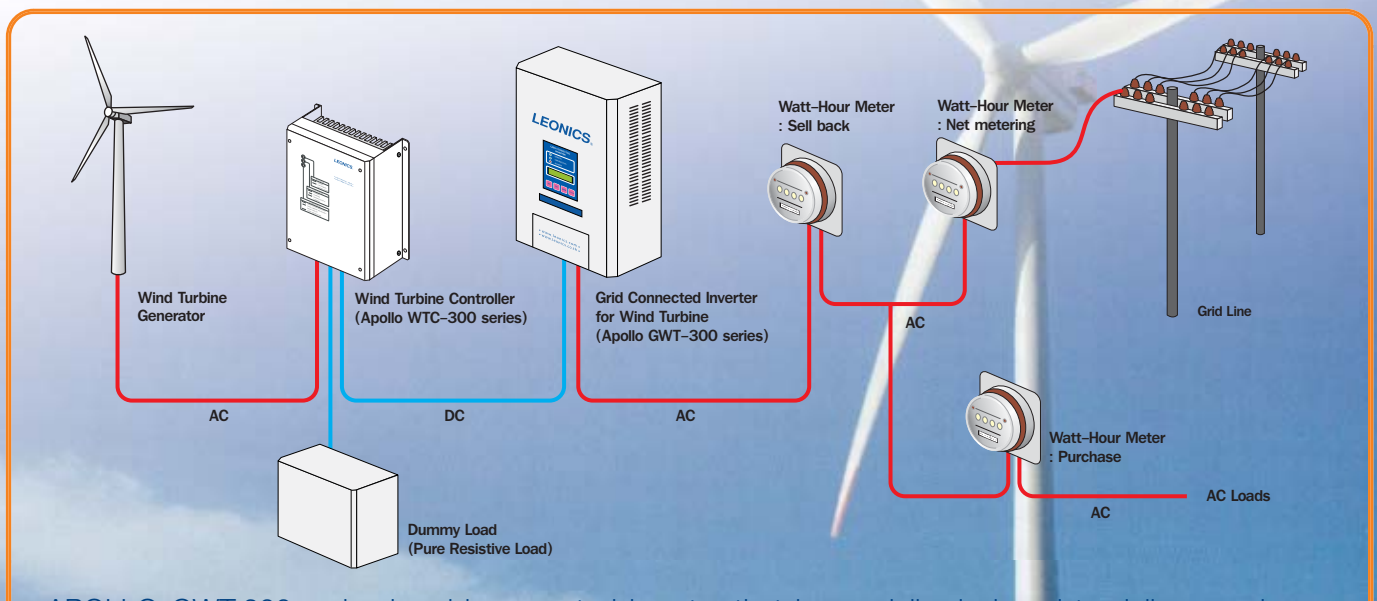


Wall mount case



Rack mount case

- Pure sine wave power output
- Low Harmonic Distortion (less than 4%)
- High efficiency > 91%
- Main and DC Bus are galvanically isolated
- Maximum Power Point Tracking for wind turbine
- 8/16 bit Microprocessor
- Advanced IGBT Technology
- Fully automatic self START when WT generate and STOP
- Special design for using at high grid fluctuation area
- Wall mount and 19 inch rack mount case
- Tested to comply with IEC 61727, IEC 62116, AS 4777 and AS 3100
- ISO 9001 and ISO 14001 certified factory



APOLLO GWT-300 series is grid connected inverter that is specially designed to deliver maximum energy produced by permanent magnet generator energized by wind turbine to utility grid. The inverter converts DC output from the wind turbine controller to AC power and supplies to the utility grid. It integrates with the maximum power point tracking to extract maximum DC power generated by wind turbine. It suits for grid connected power system for wind turbine.

SPECIFICATIONS

MODEL		GWT-304	GWT-304/RM*	GWT-304M2	GWT-304M2/RM*	GWT-305	GWT-305/RM*
Recommend to use with input from		WTC-304	WTC-304/RM*	WTC-304M2	WTC-304M2/RM*	WTC-305	WTC-305/RM*
RATED POWER	DC input	3.9 kW		4.7 kW		5.6 kW	
	AC output	3.5 kW		4.2 kW		5.0 kW	
SYSTEM	Controller	intelligent with microcomputer controlled					
	Technology	high frequency switching, IGBT technology					
DC INPUT	Operating voltage range	160 - 300 V					
	Max. allowable voltage	350 V					
GRID LINE	Voltage and phase	+10%, -15% for 220 Vac and 230 Vac (single phase) according to standards of IEC 61727 and IEC 62116 200 - 253 Vac for 240 Vac (single phase) according to standards of AS 4777 200 - 240 Vac for 220 Vac (single phase) according to standards of IEC 61727 and IEC 62116 (for PEA grid line) 209 - 240 Vac for 230 Vac (single phase) according to standards of IEC 61727 and IEC 62116 (for MEA grid line)					
	Frequency	50 / 60 Hz ± 0.5 Hz for 220 Vac and 230 Vac 50 / 60 Hz ± 0.6 Hz for 240 Vac					
AC OUTPUT	Power factor	more than 0.98					
	Total harmonic distortion	total less than 4%, each less than 3%					
	Current limiting	110%					
ISOLATION	Galvanic isolation	yes					
EFFICIENCY	Peak efficiency	more than 91%					
CONTROL		automatic cooling fans / MPPT control / Unity power factor control					
PROTECTION	Input / Output	over voltage / under voltage (AC & DC), Frequency (AC)					
	Islanding	voltage and phase shift detection and active islanding protection					
	Over heat	auto shutdown and auto restart					
	Surge energy dissipation	280 Joules 10 / 1,000 microsec wave form					
INDICATOR	LED	Main, Operating, Alarm					
	LCD display	DC / AC voltage, Current, Watt, Today kWh, Accumulated kWh, Calendar, Clock, Condition setting, Fault					
AUDIABLE ALARM	Multiple tone sound with reset for silence	mains failure, inverter fault (inhibitable)					
COMMUNICATION INTERFACE	DB-9 connector	RS-232 serial interface port					
ACOUSTIC NOISE	At 1 metre	less than 50 dBA					
ENVIRONMENT	Temperature	0 - 45°C					
	Humidity	0 - 95 % (Non - condensing)					
DIMENSION	W x H x D (approx. in cm)	37.5 x 49 x 22.9	48.2 x 19.6 x 47	43.9 x 52 x 28	48.2 x 22 x 49.7	43.9 x 52 x 28	48.2 x 22 x 49.7
WEIGHT	Approximate in kg.	23 kg.				27 kg.	
DESIGN REGULATION	Tested according to	AS 4777, AS 3100, IEC 61727 and IEC 62116					

* 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.

Authorized Distributor

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