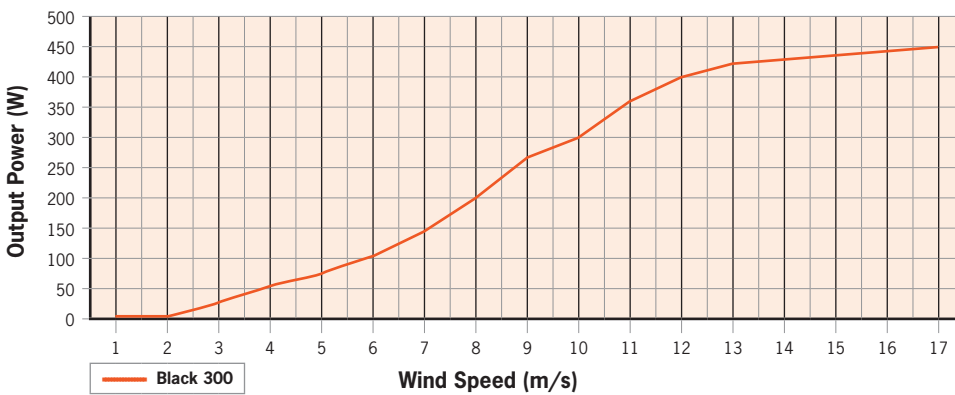
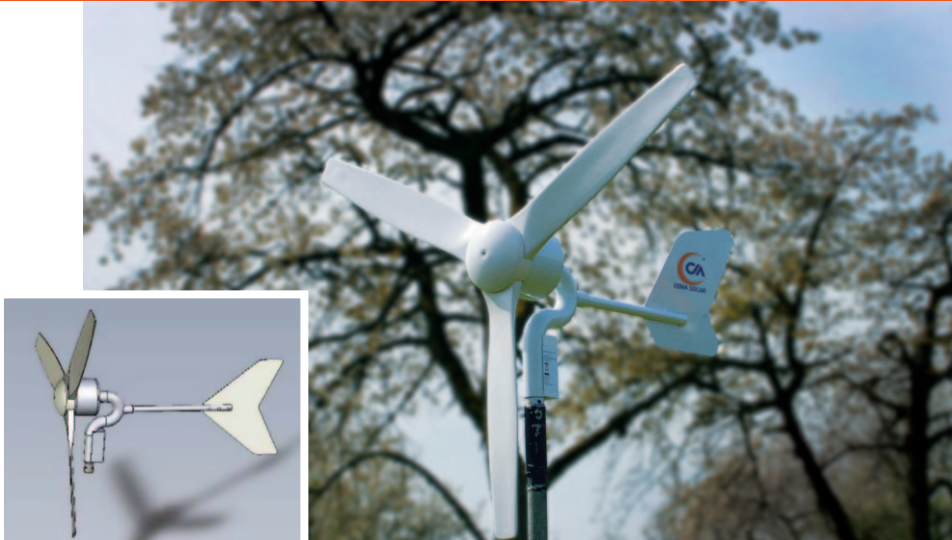


SMALL SCALE WIND TURBINES



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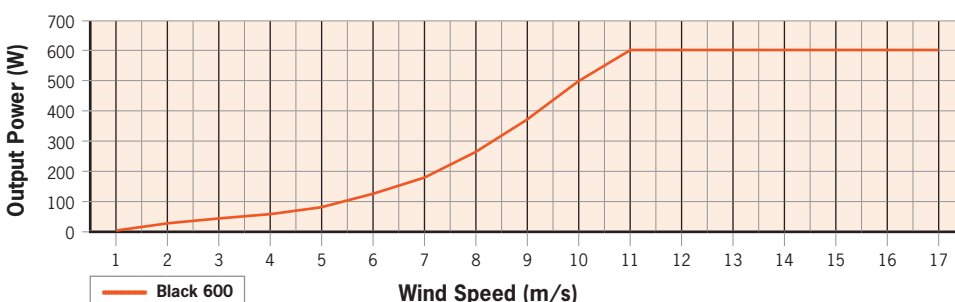


CMWT-Black 300

World's low noise turbine capable of producing a charge at wind speed as low as 1.8 m/s

- Start to load very early
- Extremely easy start-up behaviour

ROTOR	3-Blades
ROTOR MATERIAL	Carbon Nylon
ROTOR DIAMETER	1,22m
GENERATOR	Permanent
VOLTAGE	12V/24V/48V
RATED POWER	300W
RATED POWER AT	9.5 m/s
START UP	0,8 m/s
LOADING BEGINNING	1,8 m/s
OVER-SPEED PROTECTION	Electromagnetic
OVER-LOAD PROTECTION	Electromagnetic
NET WEIGHT	16kg
PACKING CARTONS	730x475x210mm
QTY IN 20' CONTAINER	270 pcs



CMWT-Black 600

World's low noise turbine capable of producing a charge at wind speed as low as 1.8 m/s

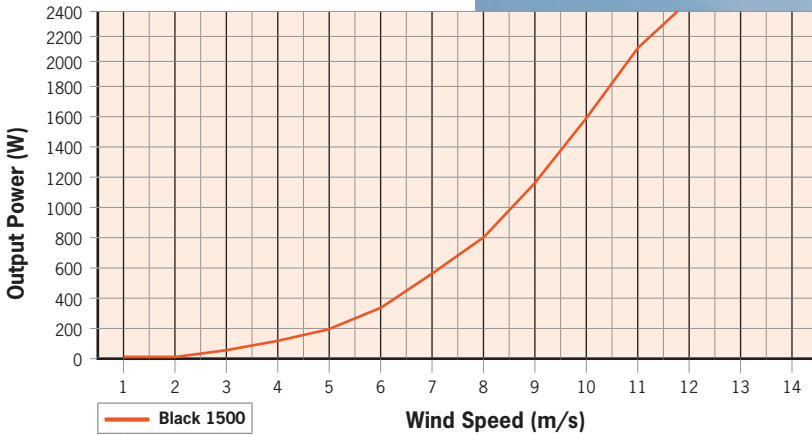
- Start to load very early
- Extremely easy start-up behavior

ROTOR	3-Blades
ROTOR MATERIAL	Carbon Nylon
ROTOR DIAMETER	1,66m
GENERATOR	Permanent
VOLTAGE	12V/24V/48V/72V
RATED POWER	600W
RATED POWER AT	10.5m/s
START UP	0,8 m/s
LOADING BEGINNING	1,8 m/s
OVER-SPEED PROTECTION	Yaw
OVER-LOAD PROTECTION	Electromagnetic
NET WEIGHT	20kg
PACKING CARTONS	840x545x285mm
QTY IN 20' CONTAINER	200 pcs

CMWT-Black 1500

World's low noise turbine capable of producing a charge at wind speed as low as 1.8 m/s

- Start to load very early
- Extremely easy start-up behaviour

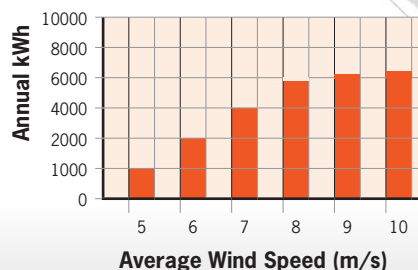
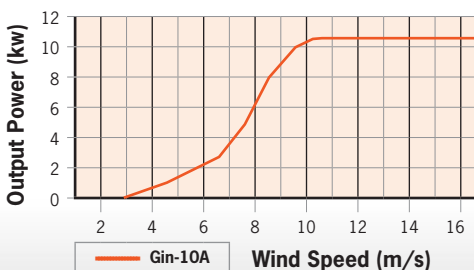


ROTOR	3-Blades
ROTOR MATERIAL	GLK
ROTOR DIAMETER	2.9m
GENERATOR	Permanent
VOLTAGE	24V/48V/72V/96V
RATED POWER	2000W
RATED POWER AT	10.8m/s
START UP	0,8 m/s
LOADING BEGINNING	1,8 m/s
OVER-SPEED PROTECTION	Yaw
OVER-LOAD PROTECTION	Electromagnetic
NET WEIGHT	55kg
PACKING CARTONS	840x545x285mm
QTY IN 20' CONTAINER	200 pcs

GIN-10A

Designed for grid tie application especially suitable for domestic properties, farms and small businesses. Gin-10A is developed aiming at the high quality/reliability product with affordable price.

- Advanced pitch control
- Hydraulic disk brake
- Specially designed for grid tie application
- Multi-points programmable grid tie controlling methods for wind application
- High response speed for wind speed and direction changes
- Multi-protection methods in high wind speed environment for extremely high reliability and safety
- High voltage, low current technical route for much higher efficiency
- Optimized aerodynamic performance for the low wind speed between 5 m/s and 8 m/s
- Direct drive, gearless, low RPM permanent magnet generator
- Ultra low rated RPM
- Very short payback period due to its high output and competitive price



RATED CAPACITY	10 kw
START-UP WIND SPEED	2.5 m/s
RATED WIND SPEED	9 m/s
SURVIVAL WIND SPEED	50 m/s
GENERATOR	direct drive permanent magnet (NdFeB)
WEIGHT	1000kg*
ROTOR DIAMETER	9.5m
NUMBER OF BLADES	3
BLADE MATERIAL	fiberglass reinforced composite
ROTOR ORIENTATION TYPE	downwind
DIRECTION OF ROTATION	clockwise looking upward
RATED ROTATION SPEED	120 rpm
PROTECTION SYSTEM IN HIGH WIND SPEED	pitching and mechanical break
GRID TIE TYPE	programmable 220/240 VAC 50-60 HZ

* Small changes may be done in the production units.

CM-HYBRID CHARGERS



VWG2008

RATED POWER	600W (best ration: wind turbine 400W, PV cells 200W)			
APPLICABLE BATTERIES	12V, 24V, 100-300Ah			
VOLTAGE MODE	12V MODE		24V MODE	
	DEFAULT	RANGE	DEFAULT	RANGE
BATTERY FLOAT CHARGE VOLTAGE (VF)	14V	12-14.4V	28V	24-30V
BATTERY LOW VOLTAGE DISCONNECT LOAD (VE)	10.98V	9-12V	21.97V	18-24V
LOAD ON VOLTAGE (VT)	12.44V	10-14V	24.88V	20-28V
CHARGE CURRENT MAX (IC)	42A	30-60A	42A	30-60A
RECOVERY TIME AFTER THE AUTOMATIC BRAKING (TB)	10min	0-60min	10min	0-60min
WIND TURBINE AUTOMATICALLY BRAKING VOLTAGE (VG)	20V	10-30V	40V	20-60V
LOAD CURRENT MAX (IL)	42A	30-60A	21A	15-30A
BATTERY FULL CHARGE CUT (VT)	14.4V	12-15V	28.8V	24-30V

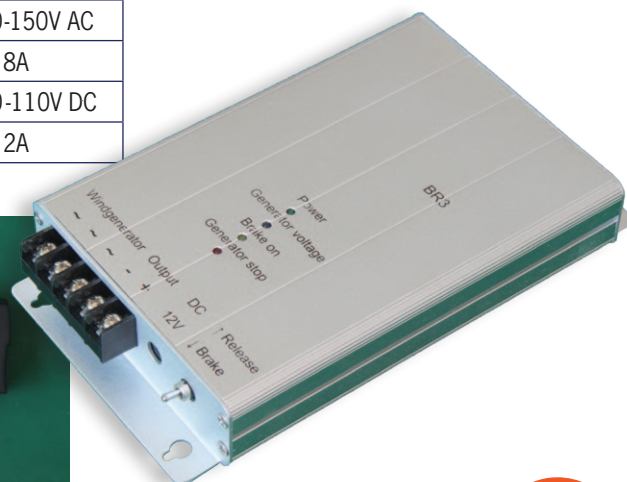
VWG3008

RATED POWER	600W (best ration: wind turbine 400W, PV cells 200W)	
APPLICABLE BATTERIES	48V, 100-300Ah	
WIND TURBINE AUTOMATICALLY BRAKING VOLTAGE	150V	
BATTERY FULL CHARGE CUT	60V	
BATTERY FULL CHARGE RESTORE	58V	
BATTERY LOW VOLTAGE RESTORE	42V	
CHARGE CURRENT MAX	47V	
CONTINUE TIME AFTER BRAKING	35min	
NO-LOAD LOSS	≤ 20mA	
DIMENSIONS	228x133x75mm	
WEIGHT	1.02kg	
WORKING ENVIRONMENT	Environment temperature -10°C, Relative humidity 0-90%	

Brake Unit

- Automatic / manual wind turbine brake
- Rectifier / generator unloader
- Over-speed protector

INPUT VOLTAGE	0-150V AC
MAXIMUM INPUT CURRENT	18A
OUTPUT VOLTAGE	0-110V DC
MAXIMUM OUTPUT CURRENT	12A



Proudly distributed and serviced by:



CMA Solar Australia Pty Ltd

ABN: 71 146 482 984

14a Boadle Road, Bundoora, VIC 3083 Australia

tel (03) 9467 8947 fax (03) 9466 7796

email sales.shchenma@163.com

www.chenma-solar-wind.com.au