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ANHUI HUMMER WIND TURBINE TECHNICAL PARAMETER

Model	H1.25-400W	H1.25-600W	H2.7-500W	H3.1-1KW	H3.8-2KW	H4.6-3KW	H6.4-5KW	H8.0-10KW	H9.0-20KW	H10.0-30KW	H12.0-50KW	H19.5-100KW
Rated power (W)	400	600	500	1000	2000	3000	5000	10000	20000	30000	50000	100000
Maximum output power (W)	600	800	1000	2000	3200	4500	7500	15000	30000	45000	75000	150000
Battery bank voltage (Vdc)	12	24	24V	60V	120V	180V	240V	240V	240V	360V	360V	480V
System output voltage (Vac)	DC12V	DC24V	Single phase AC110V to AC240V					Single phase AC110V to AC240V ,3-phase AC380V to AC420V		3-phase AC380V to AC420V		
Start-up wind speed (m/s)	2.5	2.5	3	3	3	2.5	2.5	3	3	2.5	2	2.5
Rated wind speed (m/s)	11	11	7	9	9	10	10	10	11.5	11	11	12
Working wind speed (m/s)	3-25	3-25	3-25	3-25	3-25	3-25	3-25	3-25	3-25	3-25	2.5-25	2.5-25
Survival wind speed (m/s)	50	50	50	50	50	50	50	50	50	50	50	55
Generator efficiency	>0.8	>0.8	>0.78	>0.8	>0.8	>0.8	>0.8	>0.85	>0.85	>0.92	>0.92	>0.92
Wind energy utilizing ratio (Cp)	0.4	0.4	0.48	0.45	0.45	0.4	0.4	0.4	0.4	0.42	0.42	0.42
Generator type	Permanent Magnet Alternator											
Generator weight (kg)	5.5	7	6.5	15	25	71.8	147	287	496	800	1200	2400
Blade material/quantity	Nylon/ 3	Nylon/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3	GRP/ 3
Blade diameter (m)	Ø1.25	Ø1.25	Ø2.5	Ø3.1	Ø3.8	Ø4.8	Ø6.4	Ø8.0	Ø9.0	Ø10.0	Ø12.0	Ø19.5
Speed regulation method	Yawing+electromagnetism braking					Yawing+electromagnetism braking (Customize hydraulic Braking)				Yawing+electromagnetism braking+hydraulic Braking		
Shutting down method	Manual Operation+Automatic											
Tower height (m)	/	/	6	8	10	12	12	12m for guyed-tower, 15m for standing tower	16	18	18	24
Guyed tower weight (kg)	/	/	38	60	110	195	390	535	/	/	/	/
Free standing tower weight (kg)	/	/	190	250	460	700	998	1530	2555	3510	4120	9100

Remark: 400w and 600w wind turbine is specially designed for wind-solar hybrid street light system.