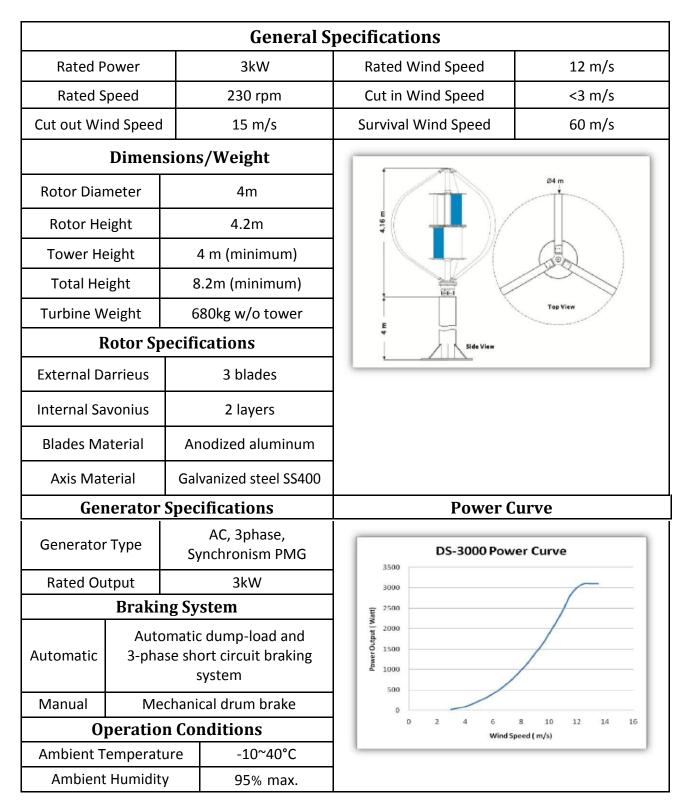
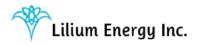


# Vertical Axis Wind Turbine Power System Model: VWT-H3K

### **PRODUCT SPECIFICATIONS**





# Vertical Axis Wind Turbine Power System Model: VWT-H3K

#### **PRODUCT SPECIFICATIONS**

IV-3K Grid-tied inverter	Specification of IV-3K		
	Output power	3000W	
	Maximum power	3500W	
	Input		
	Generator Required	3-phase AC PM Generator	
	Nominal AC Voltage	260Vac rms	
	Working range	35Vac ±5% ~ 220Vac ±5%	
	MPPT range	45 to 220 Vac	
	Initial feeding voltage	45 Vac	
	Max. input current	15 A	
	System Cut-out voltage	280V	
	Output		
	Operational voltage	192 to 254 VAC	
	Maximum Output current	15 A	
	Operational frequency	50/60Hz	
	Power factor	>0.99 @ Full-Load	
	Current distortion	<5%	
	Maximum Efficiency	>90%	
	Anti-Islanding	Yes	
	Environment		
	Protection degree	IP45	
	Operation temperature	-20 to 40°C	
	Humidity	0 to 95%, non-condensing	
	Heat Dissipation	Convection	
	Acoustic noise level	<40dB,A-weighted	
	Communication & features	RS232 standard, SNMP	
		optional(not yet ready)	
	Mechanical		
	W×D×H (mm)	480x370x185	
	Weight (kg)	20kg	
	Certificate	VDE0126./ ce	



### Vertical Axis Wind Turbine Power System Model: VWT-H3K

#### **PRODUCT SPECIFICATIONS**

PVI-3600					
AURORAwind					
SPECIFICATIONS	PVI-3.0-OUTD-US-W	PVI-3.6-OUTD-US-W	PVI-4.2-OUTD-US-W		
INPUT PARAMETERS (DC Side)					
Nominal DC Power	3120 W	3750 W	4380		
Total Max DC Power	3500 W	4150 W	4820 W		
Operating MPPT Input Voltage Range		50 V to 580 V (360Vnominal)	DOD V to CDD V @ Varid 077 V		
Full Power MPPT Range	200 V to 530 V	200 V to 530 V @ Vgrid 277 V 200 V to 530 V @ Vgrid 240 V 220 V to 530 V @ Vgrid 208 V	200 V to 530 V @ Vgrid 277 V 220 V to 530 V @ Vgrid 208 V 220 V to 530 V @ Vgrid 208 V		
Max Input Voltage		600 V			
Activation Voltage		) V nominal (adjustble from 50 V to			
Max. DC Current	20A (25A short circuit)	32A (40A short circuit)	32A (40A short circuit)		
Thermal Protected DC Side Varistor		4			
-		4 (2 positive; 2 negative)			
DC Connectors	Screw Terminal Block				
	Wire sizes : Solid, from, AWG20 to AWG 6 - Stranded, from AWG20 to AWG 9 Cable Cland, M25 - Cable diameter: 2/0" to 11/15"				
OUTPUT PARAMETER (AC Side)	Cable Gland: M25 - Cable diameter: 3/8" to 11/16"				
Nominal AC Power	3000 W	3600 W	4200 W		
Max AC Power	3300 W	4000 W	4600 W		
AC Grid Connection		lit phase 240V - single phase 208			
Nominal AC Voltage		Default 240V; Optional 208V or 277V (setting required)			
AC Voltage Range	277 V (244-304) 240 V (211+264) 208 V (183+228)				
Nominal AC Frequency		60 Hz	203 205 203		
Continuous AC Output Current Maximum Output OC Protection	<u>12A - 14.5A - 14.5A</u> 15A - 20A - 20A	<u>16A - 17.2A - 17.2A</u> 15A - 25A - 25A	<u>20A - 20A - 20A</u> 25A - 25A - 25A		
AC Side Varistor	15A - 20A - 20A	2 (live-netrual / live-PE)	23M - 23M - 23M		
AG SIDE VALISION	2 (live-netrual / live-PE) Screw Terminal Block				
AC Connectors	Wire sizes : Solid, from, AWG20 to AWG 6 - Stranded, from AWG20 to AWG 8				
	Cable Gland: M25 - Cable diameter: 3/8" to 11/16"				
Line Power Factor	1				
AC Current Distrortion	< 2% at rated power with sine wave voltage				
Max Efficiency	96.8%				
CEC Efficiency Feed in Power Threshold	96% 20W				
Nighttime Consumption	20W <2W				
Isolation	Non-Isolated Transformerless Topology				
ENVIRONMENTAL PARAMETERS					
Cooling		Natural Convection			
Operating Ambient Temperature	-25 °C to +60 °C output power -25 °C to +60 °C				
Range	derating for Tamb > 55 °C derating for Tamb > 45 °C				
Operating Altitude	6,000 ft				
Acoustical Noise	< 50 dBA @ 1mt				
Environmental NEMA rating Relative Humidity	NEMA 4X 0-100% condensing				
MECHANICAL		or not a transmig			
Dimensions (HxWxD)	547x352x208mm - (21 1/2", 12 3/4", 8 1/4")				
Weight	17 Kg - (37.5 lbs)				
OTHERS					
Display	Two Line Alphanumeric LCD				
Community line	RS485 (spring terminal block - wire cross section: AWG28-16)				
Communication	USB connection (for Service only)				
	"AURORA Easy Control" system for remote control (Optional)				

Remark 1: For US market, there is PVI-3600 as option which is UL1741 approved.