



LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Specification

Generator Type:	Three Phase Permanent Magnet
Rotor Height:	2.8 m (9.2 ft)
Rotor Width:	2.0 m (6.6 ft)
Turbine Weight:	78 kg (172.0 lbs)
Blade Material:	Aluminum Alloy
Blade Quantity:	3 pcs
Working Temperature:	-20 °C to 50 °C
Design Lifetime:	20 years

Performance

Rated Power:	1000 W
Max Output Power:	1500 W
Cut In Wind Speed:	2.5m/s (5.6 mph)
Rated Wind Speed:	10m/s (22.4 mph)
Survival Wind Speed:	50m/s (111.9 mph)
Generator Efficiency:	96%
Noise Level:	< 45 dB(A)
Warranty:	5 years

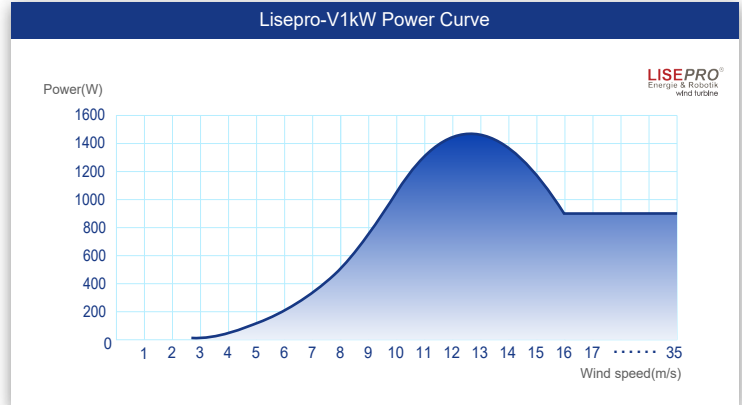
Safety

Blades RPM Limitation:	320 RPM
PWM Dump Load:	2kW Box
Electrical Brake:	Auto/ Manual

Optional

Remote Monitoring System (Internet/ Wireless)	
Auto Hydraulic Brake System (Unattended Site)	
Off Grid:	24/ 48 V
Grid Tied:	110/ 220 V

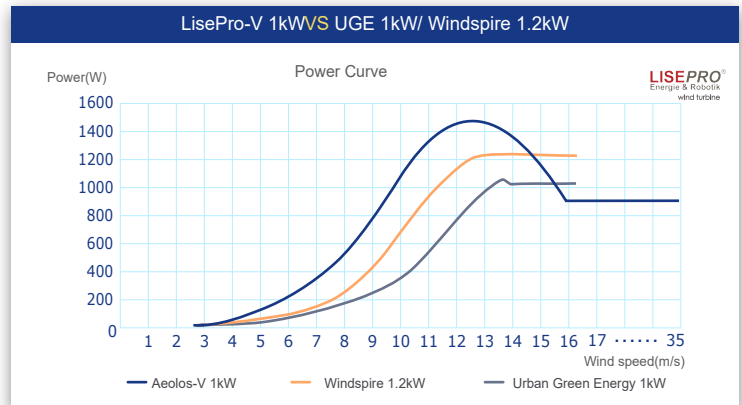
Lisepro-V1kW Power Curve



LisePro-V 1kW Wind Turbine Annual Energy Output

Wind Speed(m/s)	Annual Energy Output(KWh)
3 m / s	558 kWh
4 m / s	1253 kWh
5 m / s	2262 kWh
6 m / s	3416 kWh
7 m / s	4509 kWh
8 m / s	5431 kWh
9 m / s	6159 kWh
10 m / s	6715 kWh
11 m / s	7134 kWh
12 m / s	7449 kWh

LisePro-V 1kWVS UGE 1kW/ Windspire 1.2kW



5 YEAR WARRANTY



LisePro Energie Robotik Ltd. (TR)
ATATÜRK MAH. Bingül sok. 7 / Istanbul
TURKEY
Tel: +90 212 863 2230
E-mail: info@lisepro.com

LISEPRO®
Energie & Robotik
wind turbine



LisePro-V Series

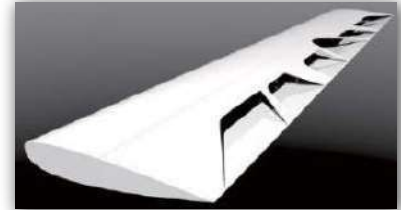
LisePro wind turbine SINCE 1988
lisepro.com



Why Choose Lisepro-V 1 kW Wind Turbine?

Triple Safety Protection

Special Blade Design: LisePro blades use the special aerodynamic design which limits the max rotating speed to 320 rpm even the wind speed is 30m/s or 40m/s. It is safer and more reliable than traditional vertical axis wind turbine.



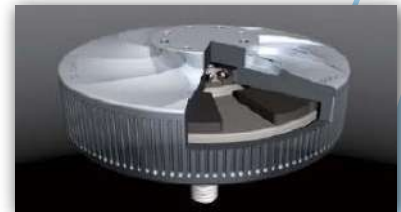
PWM Dump Load: LisePro-V 1kW wind turbine has the 2kW dump load box with PWM loading function. This will consume the over power output and control the voltage in strong wind speed.



Mechanical Brake: The manual mechanical brake can stop the wind turbine for maintenance or typhoon coming. We have the auto mechanical brake system for remote installation site without people checking as optional function.

High Efficiency

Low Cut-in Wind Speed: LisePro-V 1kW could start up with 1.5m/s wind speed and has the power output in 2.5m/s to inverter. This is more efficient than the vertical wind turbines with a 3.5m/s or even 4.5m/s cut in wind speed.



More Annual Energy Production: According to EN61400-2(IEC 61400-2) standard, LisePro-V 1kW annual output is 2262kWh at 5m/s wind speed. The annual output at 10m/s is 6715 kWh.

MPPT Charger for Off Grid: LisePro-V 1kW uses 24V/48V MPPT charging controller to increase the charging efficiency to 94%. It can charge the battery bank when wind speed is above 3.0m/s.



5 YEAR WARRANTY



LISEPRO[®]
Energie & Robotik
wind turbine



LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Intelligence Control

Remote Monitoring System: Customer can remote monitor the wind turbine operation, wind speed and power output in office, home, airport and anywhere through the internet.



Auto Hydraulic Brake System: It is suitable for the remote installation sites, like the island, telecommunication tower station which does not have people checking and monitoring. This system can auto stop the wind turbine in over voltage, over wind speed, generator over temperature and all any other faults. It can auto release the wind turbine to run after the abnormal warnings.



5 YEAR WARRANTY



LISEPRO®
Energie & Robotik
wind turbine



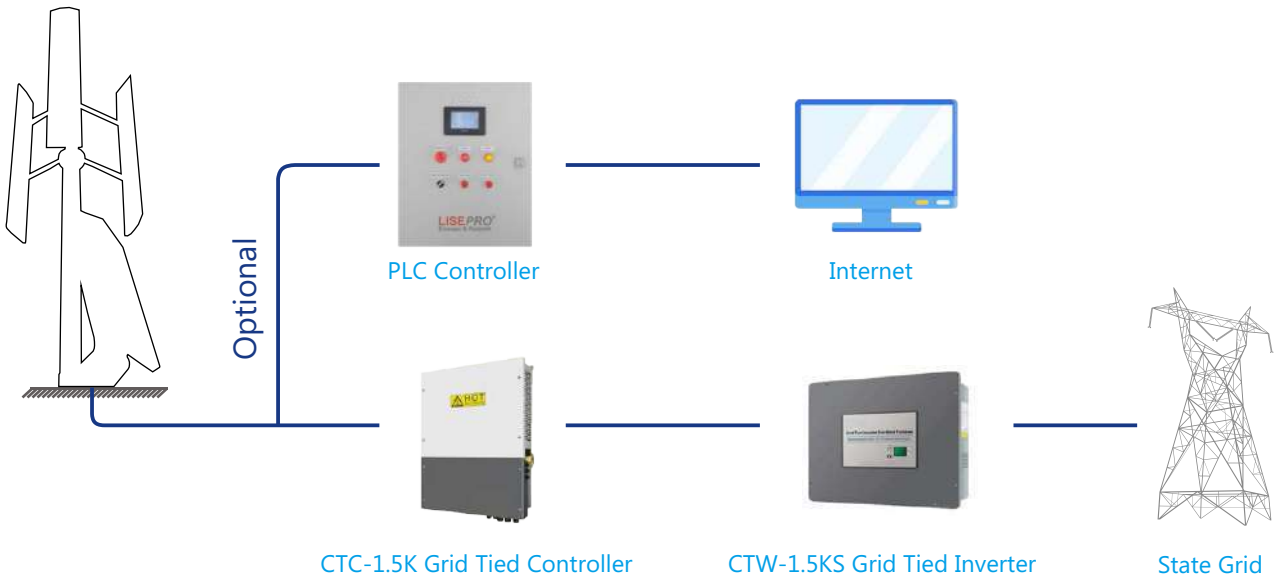
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com

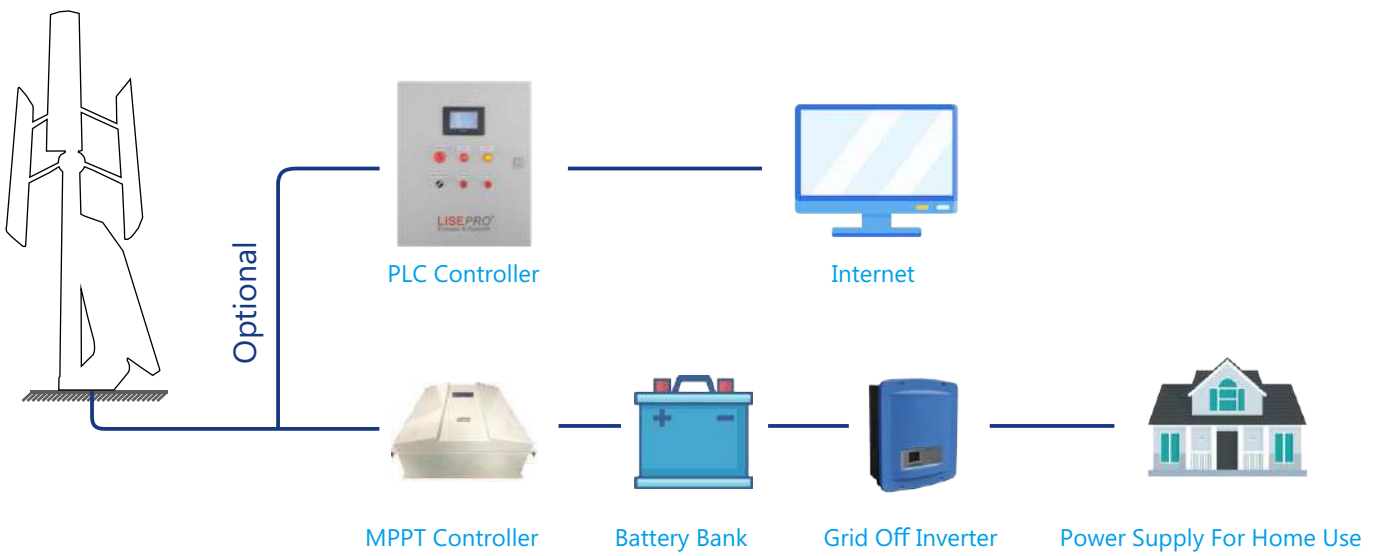


Wiring Diagram

Grid-on



Grid-off



5 YEAR WARRANTY





LisePro-V Series

Vertical Wind Turbine Brochure
LisePro-v 3 kW



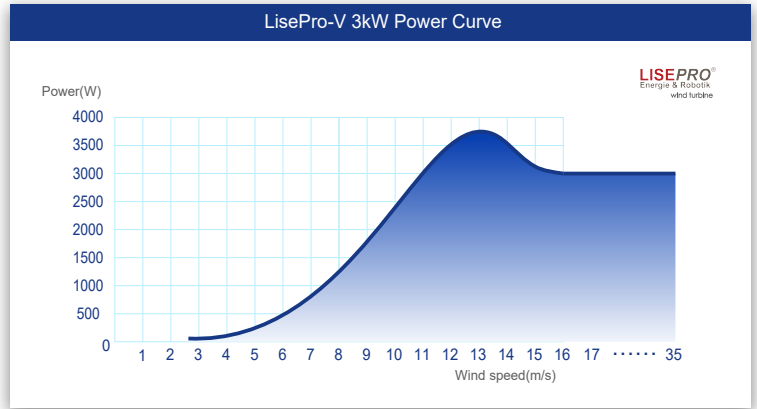
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Specification

Generator Type:	Three Phase Permanent Magnet
Rotor Height:	3.6m (11.81 ft)
Rotor Width:	2.8m (9.2 ft)
Turbine Weight:	106 kg (233.7 lbs)
Blade Material:	Aluminum Alloy
Blade Quantity:	3 pcs
Working Temperature:	-20 °C to 50 °C
Design Lifetime:	20 years



Performance

Rated Power:	3000 W
Max Output Power:	3800 W
Cut In Wind Speed:	2.5m/s (5.6 mph)
Rated Wind Speed:	11m/s (24.6 mph)
Survival Wind Speed:	52.5m/s (117.4 mph)
Generator Efficiency:	96%
Noise Level:	< 45 dB(A)
Warranty:	5 years

LisePro-V 3kW Wind Turbine Annual Energy Output

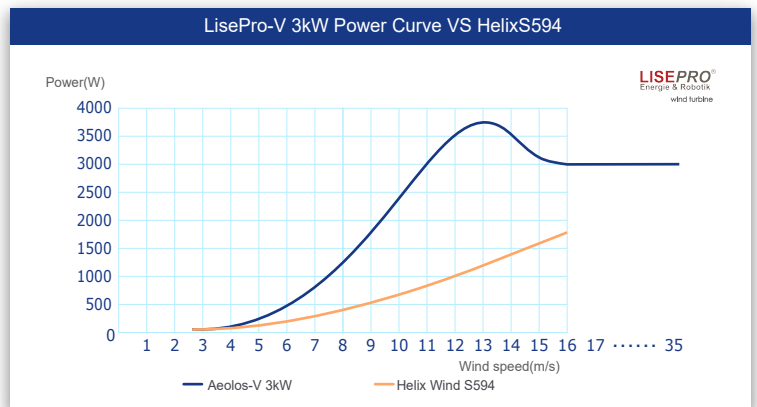
Wind Speed(m/s)	Annual Energy Output(KWh)
3 m/s	1256 kWh
4 m/s	2825 kWh
5 m/s	5156 kWh
6 m/s	7929 kWh
7 m/s	10697 kWh
8 m/s	13176 kWh
9 m/s	15271 kWh
10 m/s	16990 kWh
11 m/s	18387 kWh
12 m/s	19520 kWh

Safety

Blades RPM Limitation:	320 RPM
PWM Dump Load:	5kW Box
Electrical Brake:	Auto/ Manual

Optional

Remote Monitoring System (Internet/ Wireless)	
Auto Hydraulic Brake System	Auto/ Manual
Off Grid:	48/ 96 V
Grid Tied:	300 V



5 YEAR WARRANTY



LisePro Enerjje Robotik Ltd. (TR)
ATATÜRK MAH. Bingöl sok. 7 / İstanbul
TURKEY
Tel:+90 212 863 2230
E-mail: info@lisepro.com





LisePro-V Series

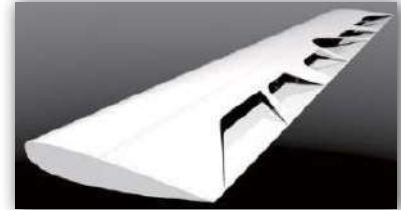
LisePro wind turbine SINCE 1988
lisepro.com



Why Choose Lisepro-V 3 kW Wind Turbine?

Triple Safety Protection

Special Blade Design: LisePro blades use the special aerodynamic design which limits the max rotating speed to 320 rpm even the wind speed is 30m/s or 40m/s. It is safer and more reliable than traditional vertical axis wind turbine.



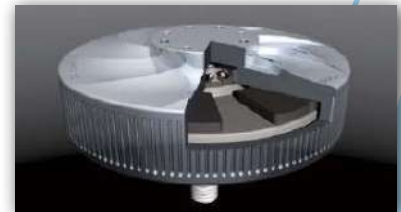
PWM Dump Load: LisePro-V 3kW wind turbine has the 5kW dump load box with PWM loading function. This will consume the over power output and control the voltage in strong wind speed.



Mechanical Brake: The manual mechanical brake can stop the wind turbine for maintenance or typhoon coming. We have the auto mechanical brake system for remote installation site without people checking as optional function.

High Efficiency

Low Cut-in Wind Speed: LisePro-V 3kW could start up with 1.5m/s wind speed and has the power output in 2.5m/s to inverter. This is more efficient than the vertical wind turbines with a 3.5m/s or even 4.5m/s cut in wind speed.



More Annual Energy Production: According to EN61400-2(IEC 61400-2) standard, LisePro-V 3kW annual output is 5156kWh at 5m/s wind speed. The annual output at 10m/s is 16990 kWh.

MPPT Charger for Off Grid: LisePro-V 3kW uses 48V/96V MPPT charging controller to increase the charging efficiency to 94%. It can charge the battery bank when wind speed is above 3.0m/s.



5 YEAR WARRANTY





LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Intelligence Control

Remote Monitoring System: Customer can remote monitor the wind turbine operation, wind speed and power output in office, home, airport and anywhere through the internet.



Auto Hydraulic Brake System: It is suitable for the remote installation sites, like the island, telecommunication tower station which does not have people checking and monitoring. This system can auto stop the wind turbine in over voltage, over wind speed, generator over temperature and all any other faults. It can auto release the wind turbine to run after the abnormal warnings.



5 YEAR WARRANTY





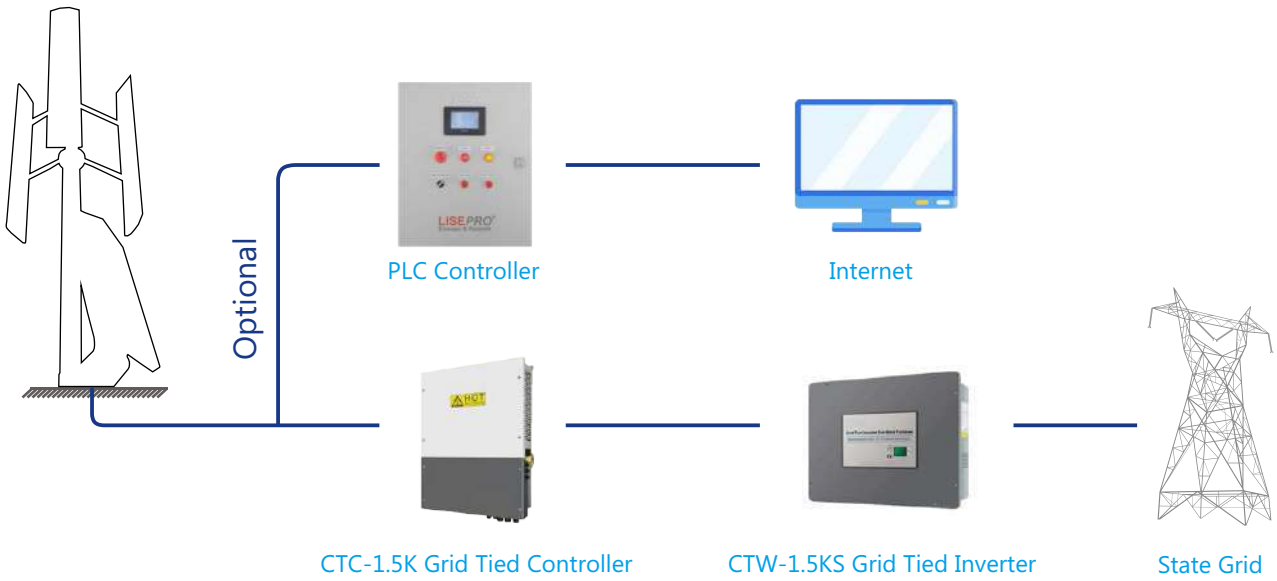
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com

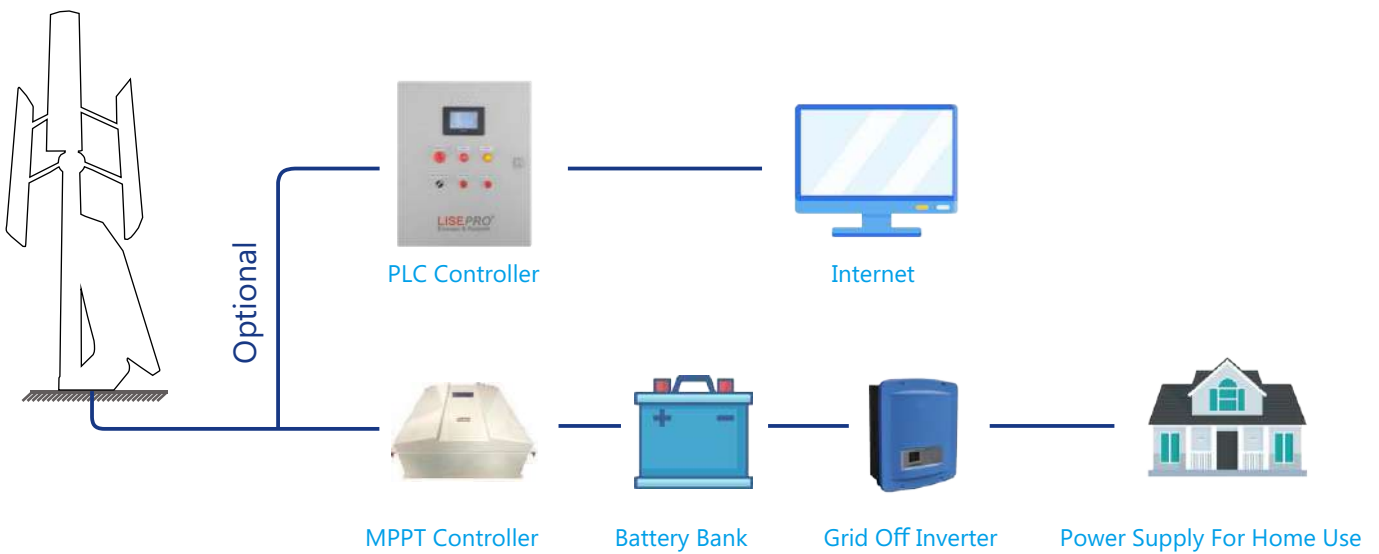


Wiring Diagram

Grid-on



Grid-off



5 YEAR WARRANTY





LisePro-V Series

Vertical Wind Turbine Brochure
LisePro-v 5 kW



LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Specification

Generator Type:	Three Phase Permanent Magnet
Rotor Height:	4.8 m (15.7 ft)
Rotor Width:	4.5 m (14.8 ft)
Turbine Weight:	500 kg (1102.3 lbs)
Blade Material:	Aluminum Alloy
Blade Quantity:	3 pcs
Working Temperature:	-20 °C to 50 °C
Design Lifetime:	20 years

Performance

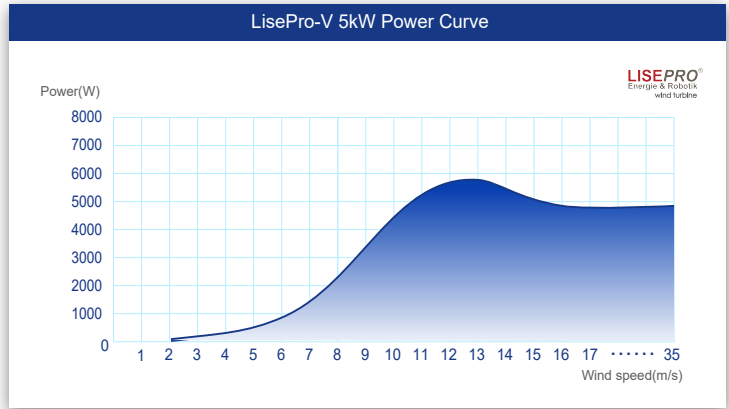
Rated Power:	5000 W
Max Output Power:	6000 W
Cut In Wind Speed:	2.5m/s (5.6 mph)
Rated Wind Speed:	11m/s (24.6 mph)
Survival Wind Speed:	52.5m/s (117.4 mph)
Generator Efficiency:	96%
Noise Level:	< 45 dB(A)
Warranty:	5 years

Safety

Blades RPM Limitation:	150 RPM
PWM Dump Load:	7.5kW Box
Electrical Brake:	Auto/ Manual
Auto Hydraulic Brake System	Auto/ Manual

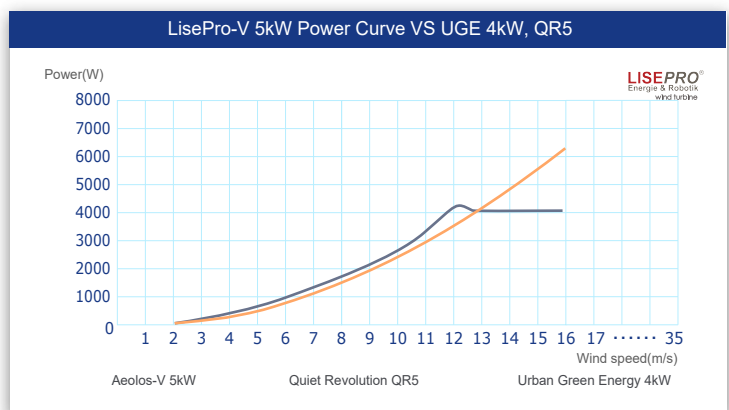
Optional

Remote Monitoring System (Internet/ Wireless)	
Off Grid:	48/ 96 V
Grid Tied:	360 V



LisePro-V 5kW Wind Turbine Annual Energy Output

Wind Speed(m/s)	Annual Energy Output(KWh)
3 m/s	2296 kWh
4 m/s	5145 kWh
5 m/s	9247 kWh
6 m/s	13933 kWh
7 m/s	18466 kWh
8 m/s	22442 kWh
9 m/s	25753 kWh
10 m/s	28447 kWh
11 m/s	30621 kWh
12 m/s	32376 kWh



5 YEAR WARRANTY



LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



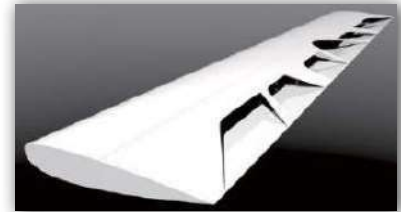
Why Choose Lisepro-V 5 kW Wind Turbine?

Triple Safety Protection

Special Blade Design: LisePro blades use the special aerodynamic design which limits the max rotating speed to 200 rpm even the wind speed is 30m/s or 40m/s. It is safer and more reliable than traditional vertical axis wind turbine.

PWM Dump Load: LisePro-V 5kW wind turbine has the 7.5kW dump load box with PWM loading function. This will consume the over power output and control the voltage in strong wind speed.

Mechanical Brake: The manual mechanical brake can stop the windturbine for maintenance or typhoon coming. We have the auto mechanical brake system for remote installation site without people checking as optional fuction.



High Efficiency

Low Cut-in Wind Speed: LisePro-V 5kW could start up with 1.5m/s wind speed and has the power output in 2.5m/s to inverter. This is more efficient than the vertical wind turbines with a 3.5m/s or even 4.5m/s cut in wind speed.

More Annual Energy Production: According to EN61400-2(IEC 61400-2) standard, LisePro-V 5kW annual output is 9247kWh at 5m/s wind speed. The annual output at 10m/s is 28447 kWh.

MPPT Charger for Off Grid: LisePro-V 5kW uses 48V/96V MPPT charging controller to increase the charging efficiency to 94%. It can charge the battery bank when wind speed is above 3.0m/s.



5 YEAR WARRANTY





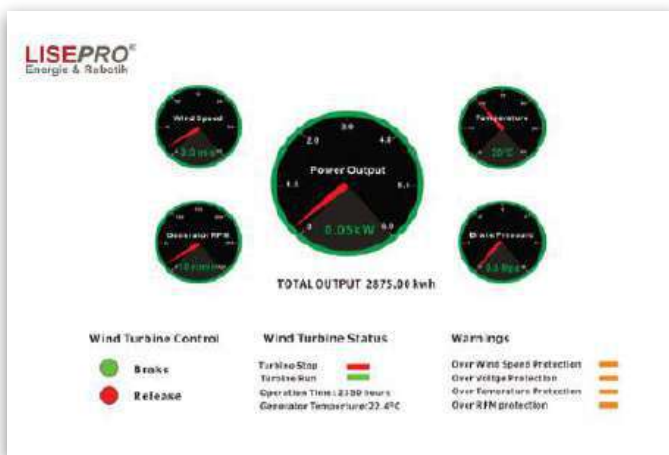
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Intelligence Control

Remote Monitoring System: Customer can remote monitor the wind turbine operation, wind speed and power output in office, home, airport and anywhere through the internet.



Auto Hydraulic Brake System: It is suitable for the remote installation sites, like the island, telecommunication tower station which does not have people checking and monitoring. This system can auto stop the wind turbine in over voltage, over wind speed, generator over temperature and all any other faults. It can auto release the wind turbine to run after the abnormal warnings.



5 YEAR WARRANTY





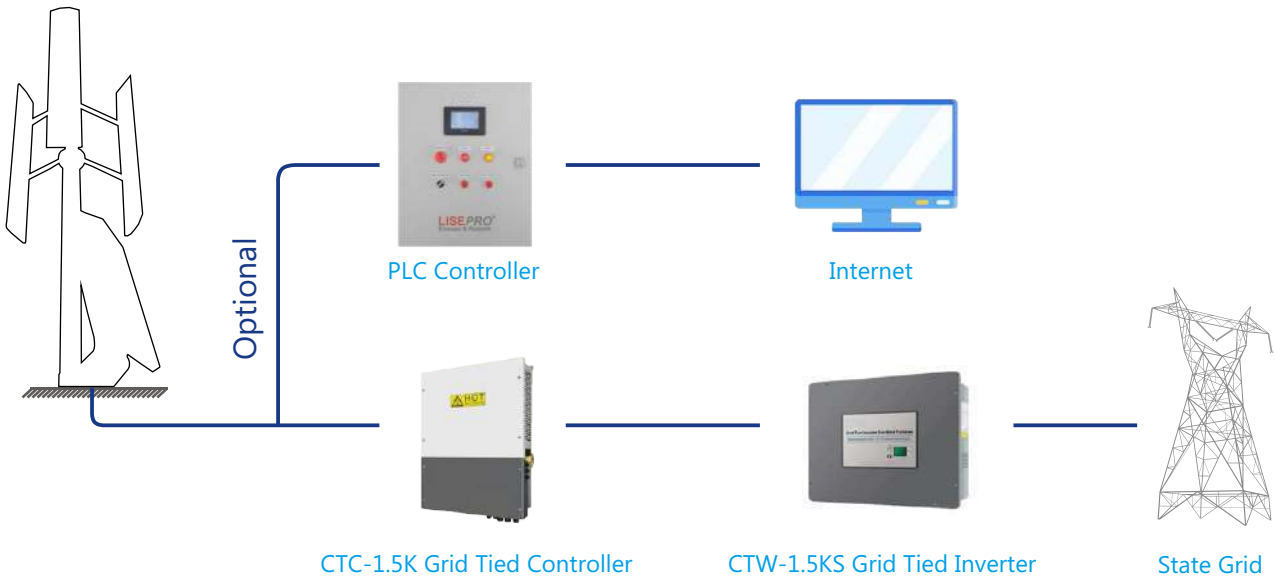
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com

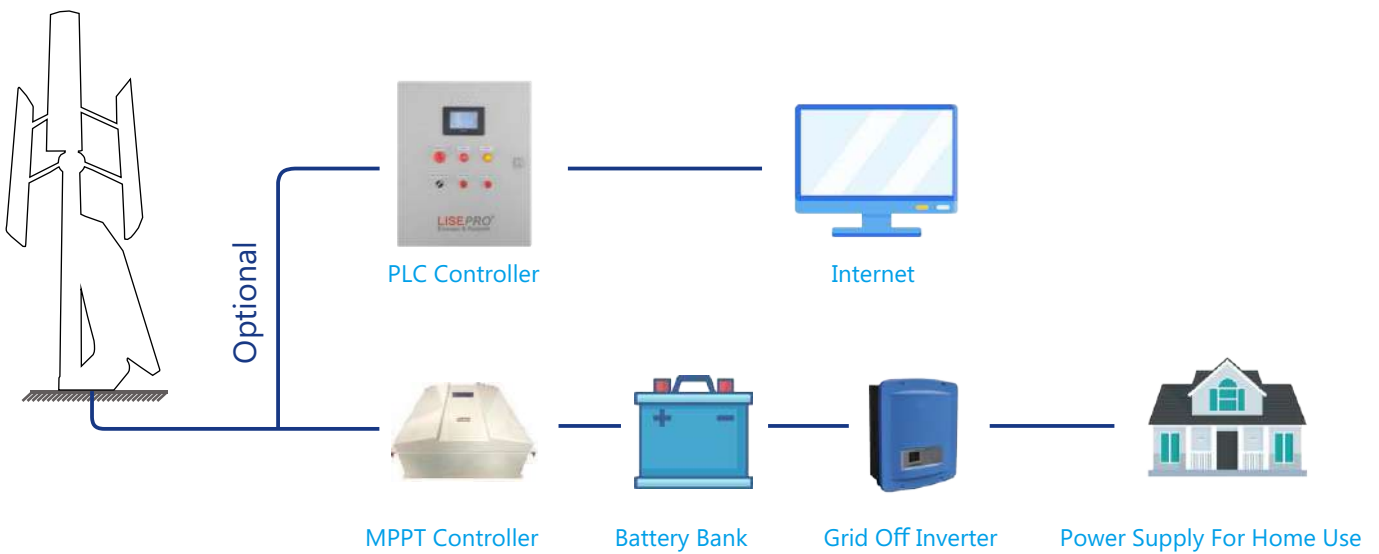


Wiring Diagram

Grid-on



Grid-off

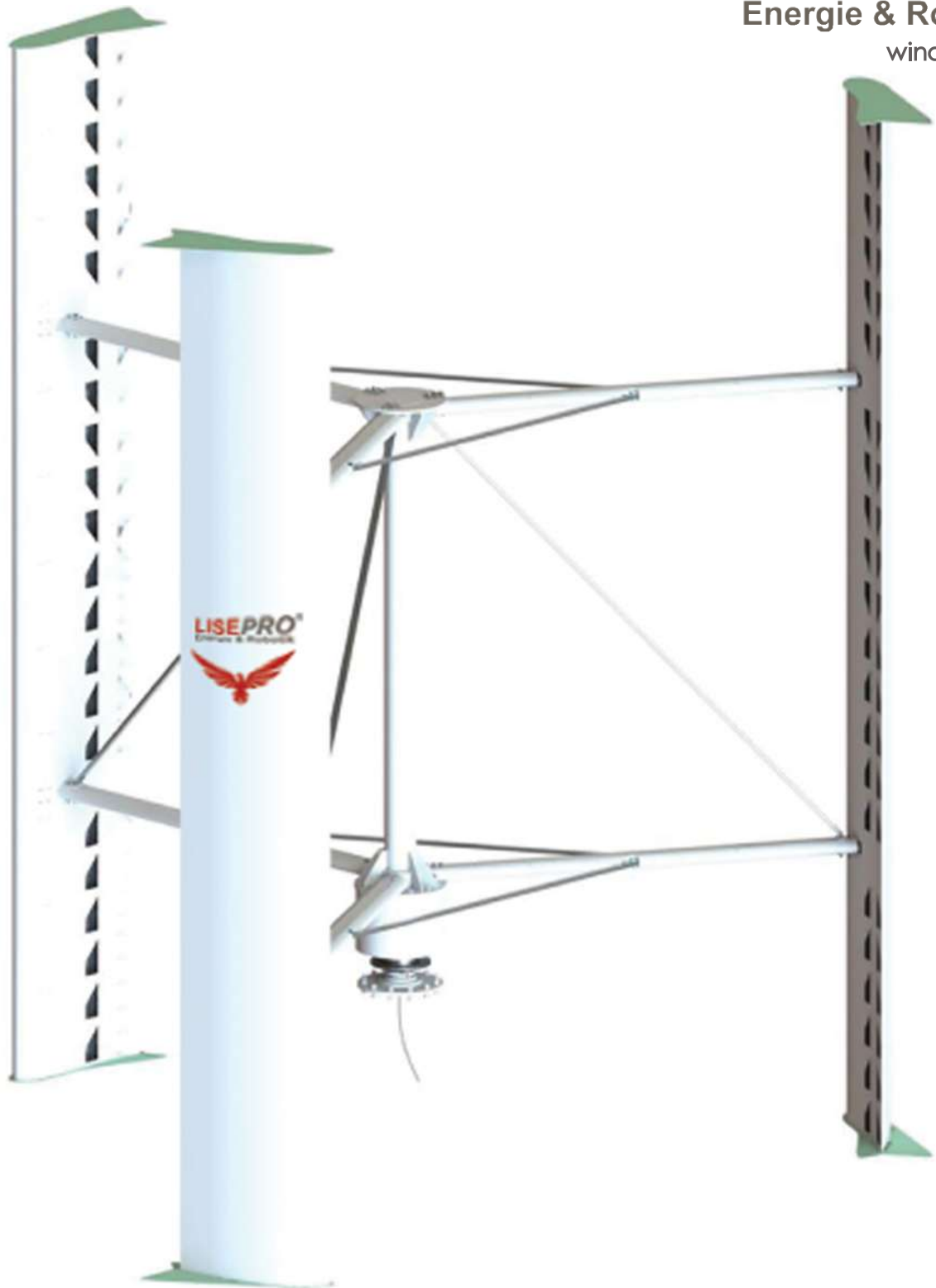


5 YEAR WARRANTY



LISEPRO®
Energie & Robotik
wind turbine

LISEPRO[®]
Energie & Robotik
wind turbine



LisePro-V Series

Vertical Wind Turbine Brochure
LisePro-v 10 kW

lisepro.com



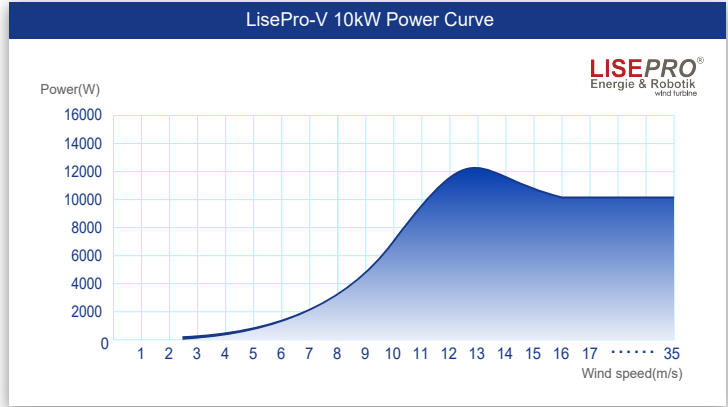
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Specification

Generator Type:	Three Phase Permanent Magnet
Rotor Height:	6.0 m (19.7 ft)
Rotor Width:	5.5 m (18.0 ft)
Turbine Weight:	980 kg (2160.5 lbs)
Blade Material:	Aluminum Alloy
Blade Quantity:	3 pcs
Working Temperature:	-20 °C to 50 °C
Design Lifetime:	20 years



Performance

Rated Power:	10 kW
Max Output Power:	12 kW
Cut In Wind Speed:	2.5m/s (5.6 mph)
Rated Wind Speed:	11m/s (24.6 mph)
Survival Wind Speed:	52.5m/s (117.4 mph)
Generator Efficiency:	96%
Noise Level:	< 45 dB(A)
Warranty:	5 years

LisePro-V 10kW Wind Turbine Annual Energy Output

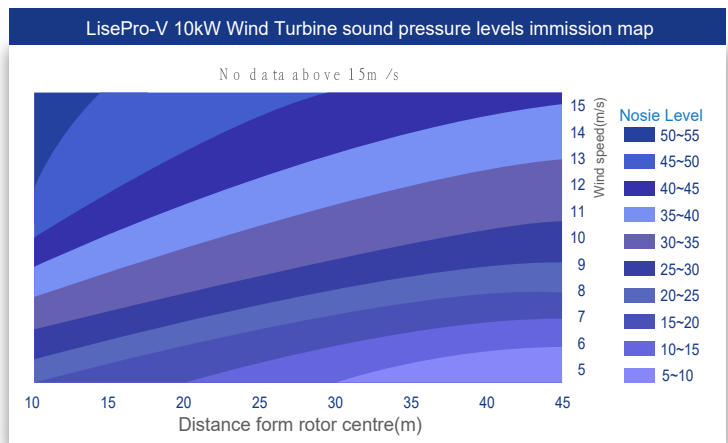
Wind Speed(m/s)	Annual Energy Output(KWh)
3 m / s	3618 kWh
4 m / s	8158 kWh
5 m / s	15026 kWh
6 m / s	23434 kWh
7 m / s	32088 kWh
8 m / s	40061 kWh
9 m / s	46968 kWh
10 m / s	52770 kWh
11 m / s	57576 kWh
12 m / s	61544 kWh

Safety

Blades RPM Limitation:	150 RPM
PWM Dump Load:	12kW Box
Electrical Brake:	Auto/ Manual

Optional

Auto Hydraulic Brake System	Auto/ Manual
Remote Monitoring System (Internet/ Wireless)	
Off Grid:	96/ 120 V
Grid Tied:	400 V



5 YEAR WARRANTY



LisePro Enerjie Robotik Ltd. (TR)
ATATÜRK MAH. Bingül sok. 7 / Istanbul
TURKEY
Tel:+90 212 863 2230
E-mail: info@lisepro.com





LisePro-V Series

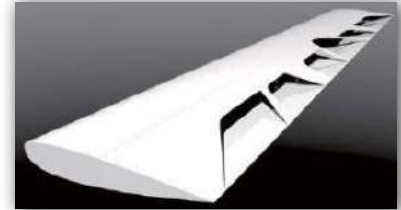
LisePro wind turbine SINCE 1988
lisepro.com



Why Choose Lisepro-V 10 kW Wind Turbine?

Triple Safety Protection

Special Blade Design: LisePro blades use the special aerodynamic design which limits the max rotating speed to 150 rpm even the wind speed is 30m/s or 40m/s. It is safer and more reliable than traditional vertical axis wind turbine.



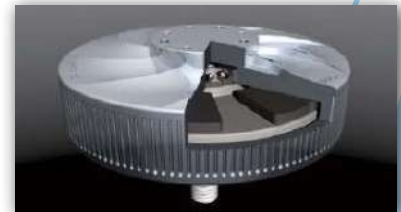
PWM Dump Load: LisePro-V 10kW wind turbine has the 12kW dump load box with PWM loading function. This will consume the over power output and control the voltage in strong wind speed.



Mechanical Brake: The manual mechanical brake can stop the wind turbine for maintenance or typhoon coming. We have the auto mechanical brake system for remote installation site without people checking as optional function.

High Efficiency

Low Cut-in Wind Speed: LisePro-V 10kW could start up with 1.5m/s wind speed and has the power output in 2.5m/s to inverter. This is more efficient than the vertical wind turbines with a 3.5m/s or even 4.5m/s cut in wind speed.



More Annual Energy Production: According to EN61400-2(IEC 61400-2) standard, LisePro-V 10kW annual output is 15026kWh at 5m/s wind speed. The annual output at 10m/s is 52770 kWh.

MPPT Charger for Off Grid: LisePro-V 10kW uses 96V/120V MPPT charging controller to increase the charging efficiency to 94%. It can charge the battery bank when wind speed is above 3.5m/s.



5 YEAR WARRANTY





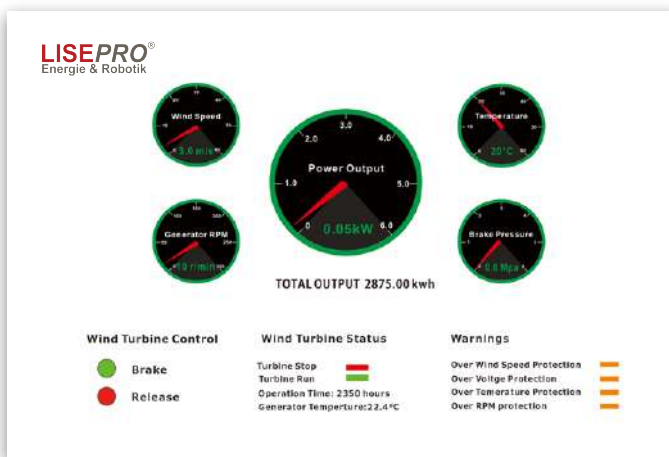
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com



Intelligence Control

Remote Monitoring System: Customer can remote monitor the wind turbine operation, wind speed and power output in office, home, airport and anywhere through the internet.



Auto Hydraulic Brake System: It is suitable for the remote installation sites, like the island, telecommunication tower station which does not have people checking and monitoring. This system can auto stop the wind turbine in over voltage, over wind speed, generator over temperature and all any other faults. It can auto release the wind turbine to run after the abnormal warnings.



5 YEAR WARRANTY



LisePro
wind turbine





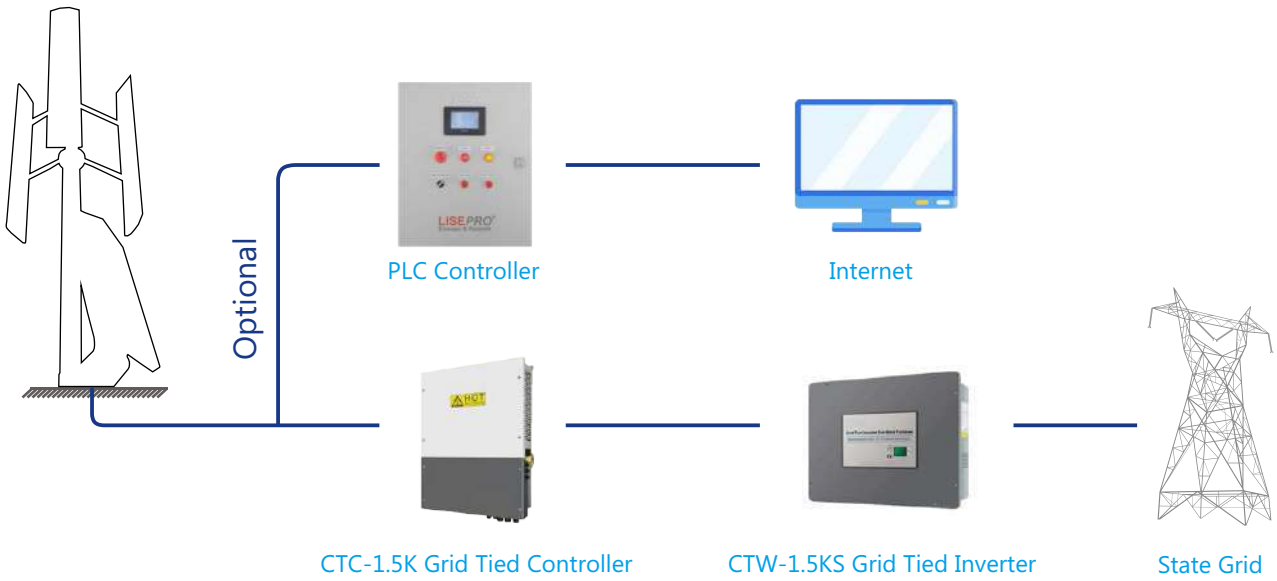
LisePro-V Series

LisePro wind turbine SINCE 1988
lisepro.com

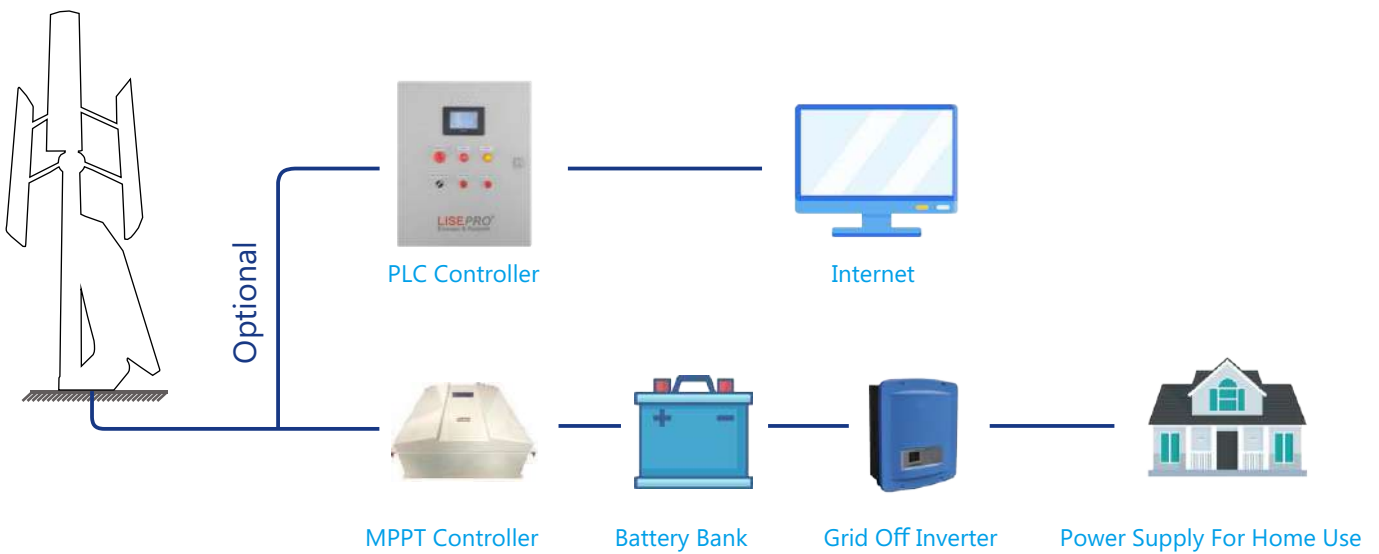


Wiring Diagram

Grid-on



Grid-off



5 YEAR WARRANTY



LISEPRO®
Energie & Robotik
wind turbine