

PowerNEST

TECHNICAL SPECIFICATIONS



PHYSICAL INFORMATION

	Corner Module	Mid Module	Solar Extension	Louvre Frame
Width	7.2m (23.6ft)	7.2m (23.6ft)	7.2m (23.6ft)	7.2m (23.6ft)
Depth	7.2m (23.6ft)	7.2m (23.6ft)	3.6m (11.8ft)	1.0m (3.3ft)
Height	4.8m (15.7ft)	4.8m (15.7ft)	4.8m (15.7ft)	4.8m (15.7ft)
Incl. louvre frames	2	1	N/A	N/A
Weight	9.7 t.kg (21,384 lbs)	7.5 t.kg (17,416 lbs)	1.4 t.kg (3,086 lbs)	870 kg (1918 lbs)
Material	Galvanized steel or aluminum structure (optional), aluminum, composites			
Color	Material color or optional RAL power coated louvre frames			
Temperature range	-20°C to +70°C, Inverters from -20°C to +40°C			

SOLAR ENERGY

	Corner Module	Mid Module	Solar Extension	Louvre Frame
# of panels	32	28	12	4
Power Output (Wp)	> 9.6kWp	> 8.4kWp	> 3.6kWp	> 1.2kWp
Panel Type	Min 300Wp or higher customized, monocrystalline P-Type			
Efficiency	>18.75%			
Panel size	~1.0 x 1.6m (3.28 x 5.25ft)			
Side equipment	Inverter with Internet connected data logger			

WIND TURBINE

	Corner Module	Mid Module	Solar Extension	Louvre Frame
# of Turbines	1	1	-	-
Turbine Type	Vertical Axis Savonius / Darrieus Combination			
Height	4.11m (13.5 ft)			
Diameter	4.00m (13.2 ft)			
Blade Materials	Aluminium alloy			
Nominal Power	3,0 kWp			
Peak Power	3,6 kWp			
Cut-in wind speed	<2 m/s (4.5 mph)			
Cut-out wind speed	18 m/s (40 mph)			
Rated wind speed	12 m/s (27 mph)			
Survival wind speed	60 m/s (134 mph)			
Generator	PMG AC 3 Phase			
Brake and Safety	Automatic dump-load, automatic break and handbreak			
Sound	40 dB at 12 m/s from 3m distance			
Vibrations	None measurable in PowerNEST frame			
Side Equipment	Controller and Inverter with Internet connected data logger			



Contact IBIS Power to purchase your PowerNEST unit

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