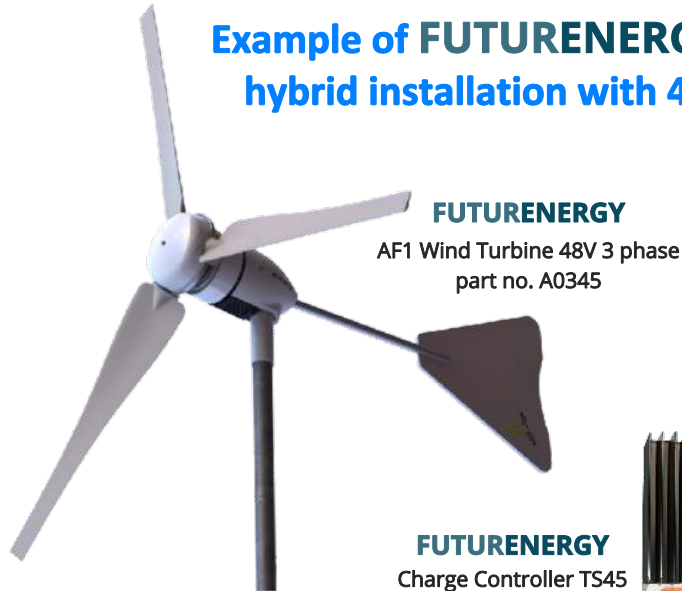




Example of FUTUREENERGY™AIRFORCE¹ Wind-Solar hybrid installation with 48V 3-phase AC 1kW turbine



FUTUREENERGY

AF1 Wind Turbine 48V 3 phase
part no. A0345

Note 1: Solar panels, that can have an open voltage of 35V to 40V, are considered to be 24V in this installation

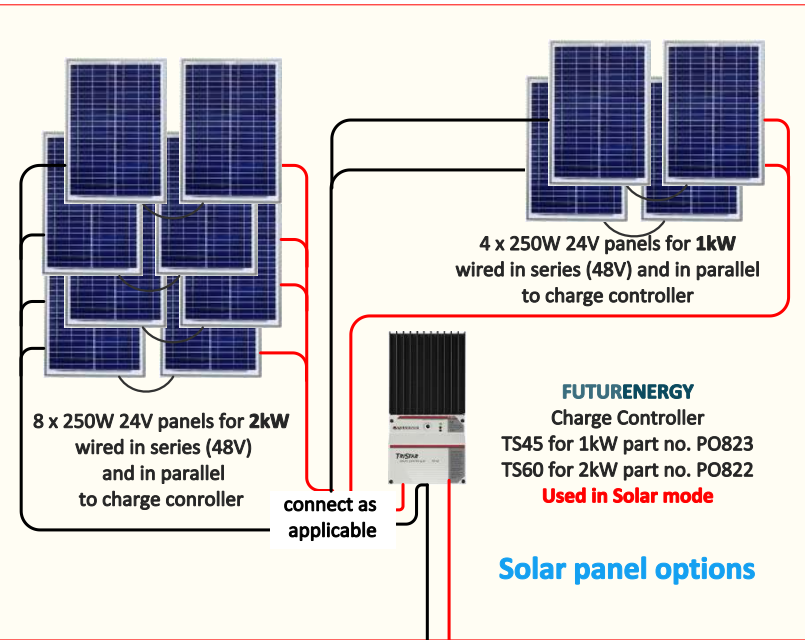
Note 2: Two charge controllers part no. PO823 are required for this installation

Note 3: Items without **FUTUREENERGY** identification are client sourced. Contact **FUTUREENERGY** if further specification details are required

Note 4: Fuses should be rated slightly higher (~5A) than the maximum current rating of the controller used

FUTUREENERGY

Charge Controller TS45
part no. PO823
Used in Diversion mode



CAUTION: The voltage of the solar charge controller must be set to a lower value than the diversion voltage of the wind controller

Inverter specification:
48V pure sine-wave
minimum capacity 3.5kW

FUTUREENERGY

Stop Switch
Part no. A0257



FUTUREENERGY

Bridge Rectifier
part no. REC02



FUTUREENERGY

Dumload Resistor
part no. R15481000



FUTUREENERGY

48V Immersion heater 1kW
part no. P0804
(dumload option)

Mount all items adjacent to controller and inverter with Stop Switch easily accessible

FUSE

FUSE

FUSE



48V Battery bank

Recommended batteries are wet lead acid
L16 type (known as traction batteries)
e.g. Rolls 6V S605 with capacity 482Ah @ C20
(capacity as discharged over 20 hours)
Slower discharge gives greater capacity e.g 624AH @ C100

High current
fused circuit breaker



110/220/240V AC output