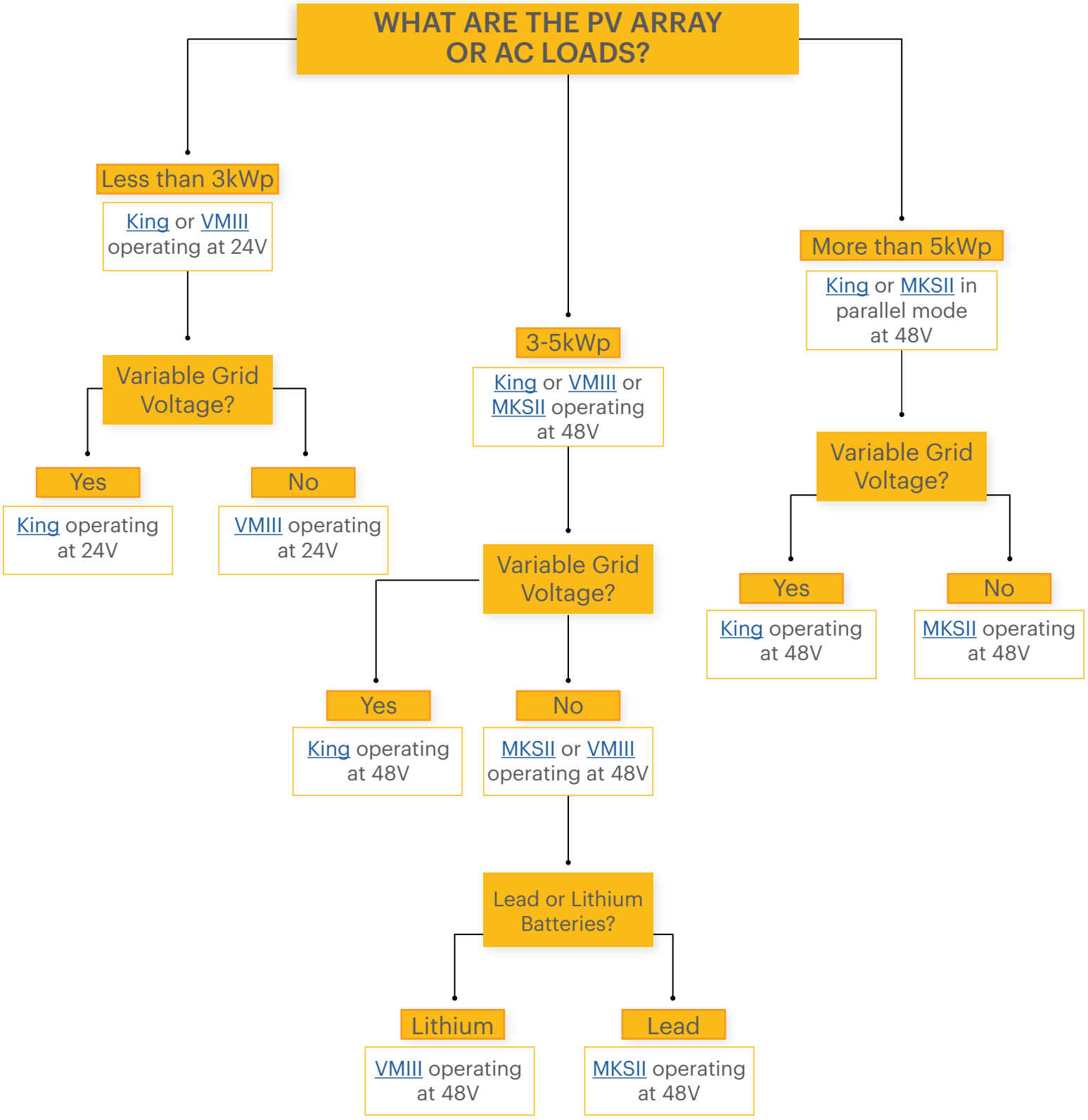
Which **Kodak**?

The **KODAK** OG models have different features and capacities which should be understood when choosing the most appropriate product for your off-grid installation.

This series of questions in diagram form helps to break the decision down.


WHAT ARE THE PV ARRAY OR AC LOADS?
Less than 3kWp
King or VMIII operating at 24V
Variable Grid Voltage?
Yes
King operating at 24V
No
VMIII operating at 24V
3-5kWp
King or VMIII or MKSII operating at 48V
Variable Grid Voltage?
Yes
King operating at 48V
No
MKSII or VMIII operating at 48V
Lead or Lithium Batteries?
Lithium
VMIII operating at 48V
Lead
MKSII operating at 48V
More than 5kWp
King or MKSII in parallel mode at 48V
Variable Grid Voltage?
Yes
King operating at 48V
No
MKSII operating at 48V

System Size:

The rated DC power of the PV array, and the peak household AC loads, will determine whether a single inverter can deliver enough energy, or whether more than are needed.

<3kW: If the loads are less than 3kW, the lower capacity versions of the King or VMIII can be utilised. Both operate at 24V and are ideal matches with the Pylontech UP2500 battery.

3-5kW: If rated power of between 3 and 5kW is needed, a single inverter is sufficient but it must be one of the 5kW models that operate at 48V. This allows additional battery capacity to fulfill more demanding loads in the home.

>5kW: If the PV array is larger, or the AC loads are higher than 5kW, more than one inverter will be required. The King and MKSII can be run in parallel mode and work in tandem with up to 8 other units.

Variable Grid Voltage

Sites located in more rural locations, or those are the end of a local transmission network, can often experience variable AC voltage that fluctuates above or below the nominal 230V quite significantly.

Yes: The King always produces a steady 230V supply whether the grid is connected or not. This ensures that appliances see their ideal operating voltage and improves their efficiency.

No: If the AC voltage generally stays within a few percent of 230V nominal then the MKSII or VMIII are ideal choices.

Lithium or Lead

Inverters that communicate directly with battery management systems are able to deliver exactly the right charge current to the battery depending on its state of charge. This ensures that energy isn't wasted and the full capacity of the battery can be used. Better communication also helps avoid damage to components.

Yes: The King and VMIII models have an RJ45 communication port.

No: The MKSII has no direct battery communication function, but an ICC add-on module can be used to improve battery communication and also enable remote system monitoring.

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