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(54) **INVERTER, PHOTOVOLTAIC POWER
GENERATION SYSTEM, AND
DEHUMIDIFICATION METHOD**

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(57) **ABSTRACT**

An inverter, a photovoltaic power generation system, and a dehumidification method. The inverter includes a ventilation valve and a pneumatic transmission device. The ventilation valve is installed on a surface of a cabinet compartment of the inverter. A controller and the pneumatic transmission device are located in the cabinet compartment. A breathable film is disposed on the ventilation valve. The pneumatic transmission device blows air in the cabinet compartment toward the breathable film when the following at least one preset condition is met. The at least one preset condition includes at least one of or more of the following cases: the inverter is running, humidity in the cabinet compartment is higher than preset humidity, and a temperature in the cabinet compartment is higher than a preset temperature.

