

NHDAT15000 three-phase sine wave inverter





Overview

How does a 3 phase inverter work?

However, most 3-phase loads are connected in wye or delta, placing constraints on the instantaneous voltages that can be applied to each branch of the load. For the wye connection, all the “negative” terminals of the inverter outputs are tied together, and for the delta connection, the inverter output terminals are cascaded in a ring.

How many switches are needed for a 3-phase bridge inverter?

In particular, considering “full-bridge” structures, half of the devices become redundant, and we can realize a 3-phase bridge inverter using only six switches (three half-bridge legs). The 3-phase bridge comprises 3 half-bridge legs (one for each phase; a, b, c).

How many switch state possibilities are there in a 3-phase inverter?

Considering inverter states in which one switch in each half-bridge is always on (for current continuity at the load) there are $2^3 = 8$ switch state possibilities for the 3-phase inverter. We give each state a vector designation and a associated number corresponding to whether the top or bottom switch in each half-bridge is on.



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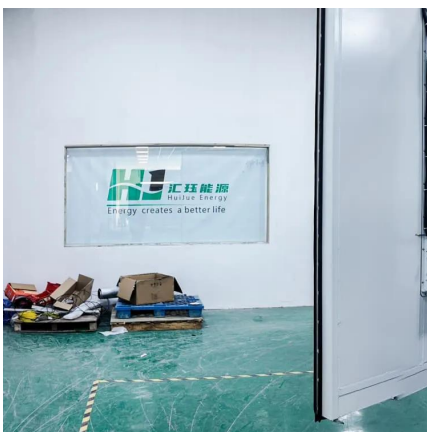


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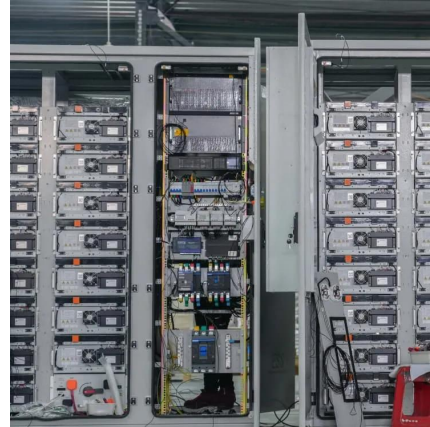
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