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## What is the difference between single phase and three phase inverter

Since it was Father's Day, the card and the chocolate orange technically belonged to Lance Concannon. But William, his 18-month-old son, had another idea. "He didn't even know what it was," recalls the Londonbased dad. "All he saw was this shiny thing in a box, and he was damned if he was going to let me have it." William seized the candy and scurried away, screaming, "It's mine! It's mine!" RELATED: Understanding "It's Mine!" "Do you even know what it is?" Concannon asked him after a few moments of this. "What is it, William? What are you holding?" "William's," answered William. That answers that. William was in the everything-is-mine stage, which classically kicks in at around 18 months. "My and mine are some of the first words children use," explains Peter Blake, Ed.D., a developmental psychologist at Boston University. Although they'll say Mama and Dada first, they quickly realize that they can claim an object simply by using language: my ball, my dog, my cup, and so on. What a cool trick! As we get older, we get better at managing our wants and needs in a more socially acceptable manner, but face it: We never outgrow our desire for possessions. We always define ourselves, at least in part, by what we own. Though your kid's grabby meltdown doesn't seem like her finest moment, it actually reflects how smart she's becoming. "It suggests that she is grasping the abstract concept of a person's invisible tie to a thing," says Susan Gelman, Ph.D., a developmental psychologist at the University of Michigan in Ann Arbor. Toddlers are little, so their reasoning is simple: Research has found that children between ages 2 and 4 tend to believe that the person who possesses an object first is the rightful owner, even if someone else gets hold of it later. The argument "I had it first!" would carry serious legal weight in a toddler-led court of law. But something important is happening at this stage of your child's life: Her sense of self is becoming more sophisticated. When a baby sees herself in the mirror, she assumes she's looking at an oddly two-dimensional new friend. However, a toddler can look at her reflection and understand that she's seeing herself. In essence, a child's sense of me emerges alongside her sense of mine. And she may be vocal about what is hers because she is focused on figuring out who she is. As it happens, decades' worth of other research in the social sciences has also proposed a link between our stuff and ourselves. In the 1980s, behavioral economists coined the term "endowment effect," which suggests that we consider our possessions to be more valuable simply because they are ours. Most of the research on this has involved adults, but some studies have found that the endowment effect shows up in toddlers too. While it's true that they get confused about what is theirs and what isn't, if you explicitly tell them what is theirs, they will file that information carefully away. Dr. Gelman, along with Nicholas Noles, Ph.D., a developmental psychologist at the University of Louisville, in Kentucky, designed experiments in which 2- and 3-year-olds were shown identical toys and told that one was theirs and the other was not. When the toys were shuffled, the kids weren't fooled; they kept careful watch and they could identify which one was theirs. In another study, the researchers added an additional question after all of the shuffling: "Which toy do you like best? The kids almost always said they liked theirs the best. Once, the kids were shown toys and a block of wood, and told that the block of wood was theirs; a surprisingly large number of kids claimed to love the wood best. "That's just the way we're wired," says Dr. Noles. All of this is fascinating in theory, but your toddler's iron grip on objects can still be frustrating in daily life. The psychologists who have studied this phase have these two pieces of advice for finessing a surge of possessiveness. Toddlers aren't being selfish or antisocial. "They're trying to figure out what's right and what's wrong, and what the rules are," says Chuck Kalish, Ph.D., principal investigator at the Study of Children's Thinking Lab at the University of Wisconsin Madison. RELATED: How Toddlers Really Think: Understanding and Reasoning 101 One way to approach a tussle over toys is to clearly say to your child, "This truck is yours and that car isn't." Remember the shuffled-around-toys study? He can keep track, even at this young age, of what belongs to whom. Fortunately, as kids get a little older, they also discover that it feels good to make someone else happy by handing him a toy. 2. Then again: You don't always have to insist on sharing. You've probably learned that it makes sense to put away any very special toys or stuffed animals before another child comes over for a playdate. "After all, if a stranger picked up your purse or your phone, you'd be pretty upset," says Ori Friedman, Ph.D., a developmental psychologist at the University of Waterloo, in Canada. You'd stick up for yourself, so why do we expect little kids to behave any differently? "When someone else yanks away a toy that your child is attached to, of course he's going to be a bit aggressive," Dr. Friedman says. If you consider the fact that your child relies on her things to help her work out who she is, it becomes easier to see why sharing can be such an explosive concept. Through this lens, the "mine" stage is an exaggerated version of something most of us struggle with on occasion, no matter how old we are. Toddlers just tend to work through these frustrations a little more loudly than grown-ups do. Inverters are used in solar systems to convert DC power from solar panels into AC power. When you start exploring your options for inverters in your solar system, you may probably hear the words "single phase" and "three phase" bandied about and wonder what on earth this means. In this article, we will explain what they are and talk about the differences between single-phase inverter and three-phase inverter. A single-phase inverter is fairly obvious. It converts the DC power generated by your solar panels into a single phase of AC power that you can use. This is how your home or business is able to make effective use of the energy generated by your solar panels. A three-phase inverter is on the other hand can produce three-phase power from the PV modules and can be connected to the three-phase equipment or grid. A three-phase inverter converts the DC input from solar panels into three-phase AC output. This inverter is commonly used in high power and variable frequency drive applications such as HVDC power transmission. What are the differences? Here are the main differences between the two: Single-Phase Inverter They are typically used in most new houses and small businesses, single-phase electricity is transported via two wires: active and neutral. The electricity from the grid or your solar PV system will only flow through the one active wire, while the neutral wire is connected to the earth at the switchboard. The purpose of your home or business' neutral wire is to provide a path back to your switchboard, the source of the electrical current, in the event of a fault. This will trip the breaker or blow the fuse, cutting your electricity and preventing you from getting electrocuted. Three-Phase Inverter Three-phase power has four wires, three of which are active, in addition to one neutral wire, which is earthed at the switchboard. Three phase electricity is common in both larger homes and businesses, as well as older homes, and allows for smaller and less expensive wiring, and lower voltages. How do I find out if I have single or three phase power? First, you can check your switchboard. If the main switch is one-pole wide, then your home is connected to a single-phase power supply. If the main switch is 3 poles wide, you have 3-phase power. Alternatively, you can call your electricity provider and ask them about the power supply. Just keep a copy of your electricity bill handy. Third, you can also check the service fuse. Homes connected to a single-phase power will have one service fuse while for a 3-phase power supply, there would be 3 service fuses. Which one should I choose? If your property has single-phase power, then you will also need to ensure you install a single-phase inverter. In most states, if your property is single-phase, you can install an inverter up to 5kW in size. You can speak to one of our energy consultants to decide which solution would be most appropriate for your needs. If you own a property with three-phase power, you're technically able to install both single-phase and three-phase compatible inverters. However, network operators will not allow an imbalance across the phases, you'll either have to install three single-phase inverters for each phase, or one three phase inverter that will work across all three phases. While there is no limit to the size of the inverter you're allowed to install, in many states your network provider will approve installations over 5kW on a case-by-case basis. Both single-phase inverters and three-phase inverters have roles for which they are well-suited. Understanding well the differences between these two kinds of inverters is helpful for solar installers to choose what is suitable for them.



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