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Below just enter current and voltage of the single-phase or three-phase or DC current. Our Amp to kW converter will give you the exact results one the "Power result in kilowatts" Amps to kW Converter Amps is the unit of current and kW is the unit of active power. For converting current to active power (kW), you need the following data such as voltage, number of phase and power factor. Here kW indicates the kiloWatt which means the multiplication of 1000 * Watt. The active or real power P will be $P = \sqrt{3} * V * \text{Cos}(\pi)$ For calculating real power ins kW $P(kW) = (\sqrt{3} * \text{Cos}(\pi)) / 1000 * V \Rightarrow$ Voltage I => Current flow through the circuit $\text{Cos}(\pi) =$ power factor of the system. Hence, for calculating current to kW, we have to use the below-mentioned formula. $\text{Current I(Amp)} = P(kW) / (V(\text{Volts}) * \text{cos}(\pi))$ Above said formula suitable for single phase. Three phase Amp to kW Converter For calculating three-phase formula we need to multiply by 3. Three-phase real power in kW is $P = 3 * \sqrt{3} * \text{phase} * \text{Iline} * \text{Cos}(\pi)$ Here the voltage is considering as line to neutral voltage and current is line current. By considering line to line voltage the three-phase real power formula will be $P = \sqrt{3} * V(\text{Line-Line}) * \text{I}(\text{line}) * \text{Cos}(\pi)$ Three phase Real power in kW. We need to divide by 1000 of the above formula, hence $P(kW) = \sqrt{3} * V(\text{Line-Line}) * \text{I}(\text{line}) * \text{Cos}(\pi) / 1000$ By converting Amp to kW $\text{I}(\text{line}) = P(kW) * 1000 / (V(\text{Line-Line}) * \text{Cos}(\pi) * \sqrt{3})$ DC Amp to kW Conversion: For direct-current, the power factor becomes one, therefore calculating dc current Amp to kW, just use the below formula Learn More: Top 19 Difference Between Top Load & Front Load Washing Machine $P(kW) = W / 1000$ I = $P(kW) * 1000 / V$ This tool will convert your current in amps to power in kilowatts quickly and accurately. How to Use the Amps to Kilowatts (kW) Calculator This calculator is designed to convert electrical current (in Amps), voltage (in Volts), and power factor to power (in kilowatts). To use this calculator: Enter the voltage in Volts (e.g., 230 for a common residential voltage). Enter the electrical current in Amps. Enter the power factor which is a measure of how effectively the current is being converted into useful work output (e.g., 0.85). Click on the 'Calculate' button. The result, displayed in kilowatts (kW), will appear in the 'Result' field. Explanation of the Calculation The formula used to calculate kilowatts is: $\text{Power (kW)} = (\text{Voltage (V)} * \text{Current (A)} * \text{Power Factor}) / 1000$ This conversion is necessary because power in an electrical system depends on all three values (voltage, current, and power factor). The division by 1000 converts the result from watts to kilowatts. Limitations This calculator assumes that you have a single-phase electrical system. For three-phase systems, a more complex calculation is needed. Additionally, ensure that all values entered are positive and that the power factor is between 0 and 1 for accurate results. If you do not know the power factor, you may use a default value of 1.00, although this may not yield accurate results for all systems. Use Cases for This Calculator Understanding Power Needs for Home Appliances As a homeowner, you're often faced with the challenge of determining how much power each of your appliances consumes. By using an amps to kilowatts calculator, you can gain insight into the energy usage of devices like refrigerators, washers, and dryers to manage your electricity costs effectively. This knowledge helps you make informed decisions about which appliances to use at peak hours and how many devices to run simultaneously without tripping circuit breakers, ultimately ensuring a more efficient power management strategy. Optimizing Solar Panel Systems If you're considering solar energy for your home, calculating the energy requirements is crucial for optimizing your solar panel system. By converting amps to kilowatts, you can determine how many solar panels you'll need to meet your energy demands, allowing you to invest wisely in solar technology. Understanding this relationship helps you tailor your solar setup to ensure it produces enough energy while minimizing unnecessary expenditure, making your transition to renewable energy smoother and more cost-effective. Calculating Electrical Load for Renovations When planning a renovation, especially if adding new appliances, you need to assess your current electrical load. By using the amps to kilowatts calculator, you can understand if your existing electrical system can handle the new demands, allowing you to avoid overloading your circuits. This prevents circuit trips and potential fire hazards, ensuring your renovation is not only functional but also safe for your family's everyday activities. You can confidently make adjustments and enhancements to your living space. Assessing Generator Requirements When selecting a backup generator, it's important to calculate the power requirement of your essential devices during an outage. An amps to kilowatts calculator offers clarity on how much power your generator needs to supply to run all your crucial appliances smoothly. This allows you to invest in the right size generator that meets your emergency needs, ensuring that you're never left in the dark during power cuts while remaining within budget and avoiding overspending on unnecessary capacity. Choosing the Right Circuit Breaker When installing new circuits, selecting the appropriate circuit breaker size is essential to ensure safety and functionality. By converting amps to kilowatts, you can determine the ideal circuit breaker that matches your energy load requirements, avoiding potential hazards from overcurrent situations. This ensures a safe electrical installation that can handle your household's power consumption without risk, providing peace of mind and compliance with electrical codes. Energy Audits in Commercial Spaces If you manage a commercial space, conducting energy audits is critical to identify areas where energy consumption can be reduced. Utilizing an amps to kilowatts calculator enables you to quantify the energy output of multiple devices, aiding in spotting inefficiencies. This will empower you to make necessary adjustments, promoting energy conservation and lowering operational costs while improving the overall sustainability of your business. Setting Up EV Charging Stations As you explore electric vehicle (EV) ownership, figuring out the necessary power supply for your home charging station becomes essential. The amps to kilowatts calculator assists you in understanding how much power your EV charger will require, allowing you to install an adequate circuit for optimal performance. This ensures that your EV charging setup will be efficient and won't impact other household electrical loads, keeping your vehicle ready to go at all times without compromising safety or convenience. Designing Energy-Efficient Homes If you're an architect or home designer, creating energy-efficient homes is one of your goals. Using the amps to kilowatts calculator helps you specify lighting, heating, and cooling systems that align with energy conservation standards, contributing to sustainable building practices. This calculator lets you analyze different configurations and systems before construction, effectively guiding your design choices toward lower operational costs and a reduced environmental footprint for your clients. Understanding Renewable Energy Systems When installing systems like wind turbines or small hydroelectric generators, you'll want to clarify the energy production capability of these systems. Leveraging an amps to kilowatts calculator helps you evaluate the output from these renewable sources against your energy consumption needs, aiding in efficiency assessments. This allows you to create a balanced energy plan that maximizes the use of sustainable resources, ultimately reducing reliance on traditional energy sources and enhancing the overall green footprint of your property. Educating Students in Electrical Engineering If you're an educator in electrical engineering, providing hands-on learning experiences is vital for student comprehension. An amps to kilowatts calculator makes it simpler for students to grasp the essential concepts of electricity, including how different amperage levels convert to kilowatt usage. This practical tool can stimulate class discussions, light experiments, and project work, helping to engage students and solidify their understanding of electrical principles, essential for their future careers in this field. Electric Power in Watts (W) to electric current in amps (A) calculator. Amps to watts calculator. * Use for scientific notation. E.g: 5e6, 4e-8, 1.45e12 Watt (W) is a unit of power. Power is the rate of energy usage per time unit. One watt (W) is equal to one joule (J) per second (s). Ampere Ampere (A) is a unit of electric current. Electric current is the rate of electric charge flow per time unit. One ampere (A) is equal to one coulomb (C) per second (s). DC watts to amps calculation The current I in amps (A) is equal to the power P in watts (W), divided by the voltage V in volts (V): Example P = 200W, V = 40V AC single phase watts to amps calculation The phase current I in amps (A) is equal to the power P in watts (W), divided by the power factor PF times the RMS voltage V in volts (V). The power factor of resistive impedance load is equal to 1. Example P = 2000W, V = 110V, PF = 0.8 I = 2000W / (0.8 * 110V) = 22.72727A AC three phase watts to amps calculation Calculation with line to line voltage The phase current I in amps (A) is equal to the power P in watts (W), divided by square root of 3 times the power factor PF times the line to line RMS voltage VL-L in volts (V): I(A) = (P(W) / 3 * PF * VL-L(V)) The power factor of resistive impedance load is equal to 1. Calculation with line to neutral voltage The phase current I in amps (A) is equal to the power P in watts (W), divided by 3 times the power factor PF times the line to neutral RMS voltage VL-N in volts (V): I(A) = (P(W) / 3 * PF * VL-N(V)) The power factor of resistive impedance load is equal to 1. Typical power factor values Do not use typical power factor values for accurate calculations. Device Typical power factor Resistive load 1 Fluorescent lamp 0.95 Incandescent lamp 1 Induction motor full load 0.85 Induction motor no load 0.35 Resistive oven 1 Synchronous motor 0.9 Watts to amps table (120V) Power (W) Voltage (V) Current (A) 10 watts 120 volts 0.0833 amps 20 watts 120 volts 0.167 amps 30 watts 120 volts 0.250 amps 40 watts 120 volts 0.333 amps 50 watts 120 volts 0.417 amps 60 watts 120 volts 0.500 amps 70 watts 120 volts 0.583 amps 80 watts 120 volts 0.667 amps 90 watts 120 volts 0.750 amps 100 watts 120 volts 0.833 amps 200 watts 120 volts 1.667 amps 300 watts 120 volts 2.500 amps 400 watts 120 volts 3.333 amps 500 watts 120 volts 4.167 amps 600 watts 120 volts 5.000 amps 700 watts 120 volts 5.833 amps 800 watts 120 volts 6.666 amps 900 watts 120 volts 7.500 amps 1000 watts 120 volts 8.333 amps 1200 watts 120 volts 10.000 amps 1400 watts 120 volts 11.667 amps 1600 watts 120 volts 13.333 amps 1800 watts 120 volts 15.000 amps 2000 watts 120 volts 16.667 amps 2200 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120 volts 1318.333 amps 129600 watts 120 volts 1321.667 amps 129800 watts 120 volts 1325.000 amps 130000 watts 120 volts 1328.333 amps 130200 watts 120 volts 1331.667 amps 130400 watts 120 volts 1335.000 amps 130600 watts 120 volts 1338.333 amps 130800 watts 120 volts 1341.667 amps 131000 watts 120 volts 1345.000 amps 131200 watts 120 volts 1348.333 amps 131400 watts 120 volts 1351.667 amps 131600 watts 120 volts 1355.000 amps 131800 watts 120 volts 1358.333 amps 132000 watts 120 volts 1361.667 amps 132200 watts 120 volts 1365.000 amps 132400 watts 120 volts 1368.333 amps 132600 watts 120 volts 1371.667 amps 132800 watts 120 volts 1375.000 amps 133000 watts 120 volts 1378.333 amps 133200 watts 120 volts 1381.667 amps 133400 watts 120 volts 1385