

SYNCHRONE PM ALTERNATORS (permanent magnetism)

A "conventional wisdom" teaches us that a generator when driving non-linear loads should be provided with a geometric over-dimension factor of 2 to 8 x the nominal capacity! Knowing that this "wisdom" is not based on any fixed guideline and is rather a technical professional consensus, these recommendations often lead to expensive oversizing of the generator in question. Even with non-linear loads, oversizing is only limited to a factor of 2, which leads to unnecessary installation, operational and periodic maintenance costs, not least because the generator runs underload for a long time! Non-linear and other electronic loads often require a higher degree of stability in voltage and frequency than, for example, with linear loads. It is sometimes forgotten that a generator is not an equivalent of a mains power source. With heavy peak loads and dead moments, it is not at all uncommon for short periods of voltage drops of 5% and more to occur with frequency fluctuations of around 10 to 15 Hz! Most users no longer ask themselves any questions! In practice, this phenomenon of overdimension continues to be associated with far too high operating costs! Investing in our PM technology frees you from these classic problems! The PM technology offers the best solution for your non-linear loads without compromise & limitations! From now on you do away with the old problems, and the electrical performance is amply increased. For example, the voltage and frequency are stable, accompanied by perfect active and reactive output power! As a result, capacitive and inductive loads are no problem at all for these alternators. Moreover, compared to the classic electromagnetic alternators, the PM alternators have a noticeably higher dynamics. This makes the PM alternator a "High-tech" super efficient and energy-saving alternative that guarantees extremely high and unprecedented performance. With an energy saving of up to +50% (the same applications can now also be found in the PM screw compressors, with the same high energy savings) The PM alternator is built around a stator and field winding in the same way as the conventional alternator. ALU alloy, with encapsulated high-quality NdFeB magnets, which creates its permanent magnetic field, unlike classic generators where the magnetic field needs to be activated. The housing is compact and uses the same SAE sizes. Due to a patented motor/alternator connection, the IP 55 insulation class is obtained, which means that the impact of dust and moisture is neutralized.

Finally, it is important that we are the only one who has succeeded in applying PM technology to generators without using an inverter, which significantly reduces the price, but also that these alternators are extremely reliable. Years of intensive research preceded this technology, with the result: a complete line of PM alternators in 3000 rpm for powers up to 9 KW and 1500 rpm for powers from 13 to 60 KW



However, the pricing for PM technology is more expensive than conventional alternators, but if one considers that the efficiency of the generator increases by a factor of 50%, resulting in savings in fuel, logistics, and maintenance. Then this additional cost is negligible, especially where the problem arises as described above of the non-linear load

Price list on reverse