

ITW GSE 5400 GASOLINE-POWERED, 400 HZ UNIT WITH CLEAN OUTPUT VOLTAGE

ITW GSE has committed themselves to develop and supply the cleanest, most reliable and cost efficient GSE systems to their key customers in the aviation industry. They now take the lead, once again, and bring the 5400 **gasoline**-powered 400 Hz Ground Power Unit to the market.

The new 5400 has an extremely clean output voltage. Due to the gasoline-driven engine, it also has a very low content of NO_x which gives a cleaner and greener environment for the airport staff and means that operators can meet emission targets with regard to NO_x emissions.

CLEAN VOLTAGE AT OUTPUT

A Ford Motor plus a mecc alte generator make up the well proven gen-set on the input of the 5400 whereas the output consists of a ITW GSE 2400, 400 Hz unit. Therefore, the 5400 unit provides the same outstanding output performances as a 2400 solid-state converter! Most importantly: a precise and clean output voltage due to the ITW GSE patented Plug & Play voltage compensation system and the individual phase regulation of each output phase.

FIRST OF ITS KIND TO RUN AT VARIABLE SPEED

The 5400 gasoline-engine is the first of its kind that runs at variable speed, thus reducing noise and minimizing wear and tear.

Narrow body aircraft consume around 20 kW during turnarounds. Under those conditions, the 5400 gasoline engine can sustain the load running at a very low speed. At higher aircraft loads, the engine speed adapts to the required power. Up until now, such load impacts have been a challenge. ITW GSE has therefore developed a super capacitor energy reservoir, a well-known solution from the world of rally cars. Thanks to the reservoir, the gasoline engine can handle heavy load jumps without jeopardizing the output voltage and frequency. In this way, the aircraft departure can take place as planned to the benefit of both airlines and passengers.