

## ITPU (Integrated Telecom Power Unit)

ITPU is an advanced product from PACE, which provides total power solution including tasks like DC power generating, AC & DC power distribution, DG automation, Alarm generation and transmission to Krone box. It is an integrated and compact power management system and plays a major role in the operation of an unmanned telecom BTS site. ITPU mainly comprises of a power plant that is a switch mode power supply with IGBT/MOSFETS based on high frequency SMPS or PWM technology. It also has SVR (Static Voltage Regulator) and an Advanced Micro Controller based control unit to regulate and monitor the various parameters of ITPU. AMF logic based design and operation helps it to select the Grid main supply intelligently and utilize the rectifiers optimally. Equal distribution of the rectifiers and their connection to Grid through separate MCBs ensure that they have a wide range of operation from 90v to 300 v. This saves cost and reduces LCU capacity. ITPU from PACE is a sophisticated product that support great Grid utilization and better reliability of rectifier modules. Sharing of load by the micro controller based LCU helps in the regulation of wide input voltage range (90v to 300v), and offers a stabilized output of 200v and an extra 10%. Efficiency is ensured through built in power factor correction and load sharing circuits. ITPU from PACE also has a well-designed auto transformer, which provides optimum insulation and efficiency at different load conditions.



The micro controller unit of ITPU is highly sophisticated and is designed to measure and monitor various parameters, input and output (mains voltage, input frequency, load current and each phase, LCU O/P voltage, DG Voltage, DG frequency, etc). Advanced functioning of ITPU provides various indications like Mains on, DG on, LCU Fail, DG Fail to start, LLOP, and D G over load etc in a user friendly output. Ensure power to different loads like power sockets, air conditioners, etc through ACDB. PACE ITPU is also designed to generate alarms and transmit them to Krone box. High- tech designing allows advanced communication of information and data through GPRS. **SALIENT FEATURES:**

- Automatic Mains Failure (AMF) functions
- ACDB
- Static Voltage Regulator
- Automatic Best Phase Selector.
- Fault Alarms with potential-free Contact.
- Mains and DG parameter Monitoring
- Fire Alarm Module
- Aviation Lamp Control
- Real time clock and event recording.
- Monitoring & Control through GSM Network
- Monitoring through GPRS Network
- Power Plant