Manufacturing of Power Systems is centered at PACE POWER owned and operated facility spread over 15000 Sq.Ft. Company represents a young, dynamic and dedicated Engineering staff which gives PACE POWER customers a Combination of design expertise and production efficiencies. PACE POWER's Customers include major International OEMs, who use its power systems applications including telecommunications, computing, medical devices and office automation. PACE Power do focus on innovative designs, which would meet the challenging requirements of its customers.

ACPDB WITH SVR INDOOR

System Comprises....

ACPDB is a fully automatic telecom BTS power solution, used in GSM Network, CDMA, Optical repeater networks etc. ACPDB replaces the existing conventional disintegrated power solutions in the telecom network, like Servo Stabilizer, Isolation Transformer, Relay based AMF panel, Generator control Unit and Counter, ACDB, Fire alarm, AC controller, Surge protection devices, Aviation timer etc.

The ACPDB consists of the following modules, integrated in the single cabinet and reduces the floor space as well as wall space in the telecom site. Also, the complexity of interconnecting all these modules is avoided.

PACE POWER SYSTEMS

ACPDB WITH SVR

MAJOR MODULES OF THE ACPDB

- Surge Protection Devices (SPD's)
- Static Voltage Regulator(SVR)
- AMF Controller
- AC Distribution unit
- Fire Alarm Module
- Aviation Lamp Controller
- DG Battery Charger
- Air Conditioner Controller (Optional)
- Auto Phase selector (Optional)
- Manual Phase selector (Optional)
- Fuel Optimiser (optional)
- Energy Meter Box for the DG
- Display unit

KEY FEATURES

- Compact & Modular design – Easy replacement of sub-modules at site
- Minimum Generator utilization (Fuel savings and less DG wear and tear)
- Immense savings of space and Installation materials (Savings in Capex and Opex)
- MTTR is as low as 15 minutes (Down time is less)
- MTBF is high due to usage of reliable components and non-movable parts.
- Dedicated ACPDB controller with True RMS display of Voltage current and frequency display, scrolling display , lamp indications, Alarm extension features provided
- Automatic and Manual Modes of operation
- Battery voltage and shelter inside temperature monitoring feature to switch on the DG set – Fuel saving
- DG Battery and ACPDB battery voltage supervision
- Performance, fault date storage features provided for easy maintenance.
- Inbuilt lightning and surge protection devises provided
- Built-in circuit provided to monitor DG / PCM circuitry

ACPDB CONTROLLER

- Micro Processor based controller, working voltage 8 volts to 35 volts DC
- AMF functions are incorporated
- Display parameter (Digital) : 17 parameters
- Monitoring and metering: 8 parameters
- Digital output (Relay Out) : 18 parameters
- Digital Fault inputs : 7 parameters
- Programmable parameters through front panel keys
- Event recording: 500 events, which can be converted to MS Excel for diagnosis(optional)
  - Parameter list with date and time stamping.
  - Fault events with date and time stamping.
  - DG start and stop event log with date and time stamping.
- RS 232 port provided for any change in setting through laptop (optional)

SVR & ISOLATION TRANSFORMER

- Micro processor based controller
- Static stabilizer output is 220v +10%
- Built-in Isolation transformer
- Thyrister based static Line conditioner unit .
- Dynamic response 400V/sec.
- Built-in high voltage and low voltage protection at input and output with response time of less than 10msec.
- Modular design for easy replacement of SVR control module.

ACPDB WITH SVR

TECHNICAL SPECIFICATIONS

Input Power Supply	Single Phase	Two Phase	Three Phase
Capacity (For Standard Models) **Customization can be done based on needs.**	5 KVA 7.5 KVA	12.5 KVA 15 KVA 25 KVA	15 KVA (3x5 KVA) 25 KVA (3x8.3 KVA)
Model No.	ACPDB 1. 11-5 ACPDB 1. 11-7.5	ACPDB 1. 21-12.5 ACPDB 1. 21-15 ACPDB 1. 21-25	ACPDB 1. 33-15 ACPDB 1. 33-25
Trade Mark	**ACPDB**	**ACPDB**	**ACPDB**
INPUT			
Input Voltage Range	140V-280V Line to Neutral	240V-480V Line to Line	240V-480V Line to Line
Input Current at Lowest Input Voltage (140V for 1ph, 240V 2&3 ph)	35.71 53.57 A	52.08 A 104.16 A	24.05 A Per Phase 40.09 A Per Phase
Frequency	47 - 53 Hz	47 - 53 Hz	47 - 53 Hz
OUTPUT			
Rated Output Voltage	220V+10% Line to Neutral	220V+10% Line to Nutral	220V+10% Line to Nutral
Output Current Max. (at lowest out voltage 198V) **AMPS**	25.25 A 37.88 A	63.13 A 126.26 A	25.25 A Per Phase 42.08 A Per Phase
System Efficiency	94%	94%	94%
AC DISTRIBUTION (STANDARD)			
Circuit breaker Type	DIN Class C Type	DIN Class C Type	DIN Class C type
EB Input	63A - 1 No. 63A - 1 No.	63A - 1 No. 80A - 1 No. 125A -1 No.	63A - 1 No. 63A - 1 No.
DG Input	63A - 1 No. 63A - 1 No.	63A - 1 No. 80A - 1 No. 125A -1 No.	63A - 1 No. 63A - 1 No.
Load Distribution : Site load details and circuit breaker current ratings are configured as per requirement.			
Power Plant (SMPS)	32AMPS SP for SMPS - 1 No.	32AMPS SP for SMPS - 3 Nos.	32 AMPS TP for SMPS - 3 Nos.
Air Conditioner	NA	32 Amp SP for Air Conditioner (1&2 - 2 Nos.)	32 Amp TP for Air Conditioner (1&2 - 4 Nos.)
Battery Charger	6 Amp (SP)-1No.	6 Amp (SP)-1No.	6 Amp (SP)-1No.
Lighting	6 Amp (SP)-1No.	6 Amp (SP)-1No.	6 Amp (SP)-1No.
Power Point	16Amp (SP)-1No.	16Amp (SP)-1Bi,	16Amp (SP)-1No.

ACPDB WITH SVR

MECHANICAL

Dimension in mm	W600XD400XH1200 (5 & 7.5 KVA)	W600XD400XH1400 (12.5 & 15 KVA) W600XD 500XH1600	W600XD500XH1800 (25 KVA)
Weight incl. Line Conditioner Units (Apprx.)	110/130 Kgs	170/180/220 Kgs	290/340 Kgs
Ingress Protection	IP21	IP21	IP21
Construction	Sheet metal fabricated cabinet of 1.6mm thick sheets for covers and 2 mm thick for hinged door.		
Earthing /Grounding	A common earth busbar provided inside top of the ACPDB and all the internal earth wires are terminated to the common earth busbar. Provision is made to connect external earth cables.		
Cable entry	Cable entry provision is made at the top of ACPDB and cable entry holes are provided with rubber grommets or plastic cable glands.		
Foundation holes	ACPDB grouting holes 4 nos. of 14 mm dia provided at bottom.		
Equipment	Powder coated and Can be provided in any shade based on requirement.		
Packing	Wooden or Cardboard packing with cushion		

ENVIRONMENTAL

Noise level	< 65 Db	< 65 dB	< 65 dB
Operating Temperature	-5° to +55° C	-5° to +55° C	-5° to +55° C
Storage Temperature	-20° to +80° C	-20° to +80° C	-20° to +80° C
Humidity	RH 95%	RH 95%	RH 95%

STANDARDS

Conducted Emission	: Meets Class A Group II limits of CISPR 11
Radiated Emission	: Meets Class A Group II limits of CISPR 11
Electrical Fast Transient (EFT)	: IEC 61000-4-4:2001
Electro Static Discharge (ESD)	: IEC 61000-4-2:2001
Surge Immunity	: IEC 61000-4-5:2001
R.F. Conducted Immunity	: IEC 61000-4-6:2001
Environment	: TEC QM 333 R2
MTBF	: **ACPDB** material & workmanship shall be of professional quality and meet the MTBF requirement. The MTBF of the **ACPDB** is more than 70000 hrs.
Safety	: IEC 60950



The only way to catch up with the future is with

PACE

ACPDB WITH SVR

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