

24 ELECTRICAL POWER SYSTEM PRESENTATION (1)

GENERAL

There are two identical engine driven generators called Integrated Drive Generators (IDGs). They are used as the main power source to supply the A/C electrical network.

The IDG basically contains, in a common housing, a generator and a Constant Speed Drive (CSD). The CSD gives a constant input speed to the generator, which is required for a constant output frequency.

Each generator supplies 115V/400Hz AC to its own bus:

- generator 1 supplies AC bus 1,
- generator 2 supplies AC bus 2.

This supply is known as split operation, which means that the AC power sources are never connected in parallel.

Each AC bus supplies a Transformer Rectifier (TR):

- AC bus 1 supplies TR 1,
- AC bus 2 supplies TR 2.

The TRs convert 115V AC into 28V DC to supply their associated DC buses, DC 1 and DC 2.

DC bus 1 then supplies the DC BAT bus.

The DC battery bus can charge the batteries or receive power from the batteries as a backup supply, if no other power sources are available.

The electrical system also includes two ESSEntial (ESS) Buses. One is the AC ESS bus fed by AC bus 1 and the other is the DC ESS bus fed by DC bus 1. These buses are used to supply the most critical A/C systems.

This is the basic electrical system. We will now introduce some other components, which also supply the system.

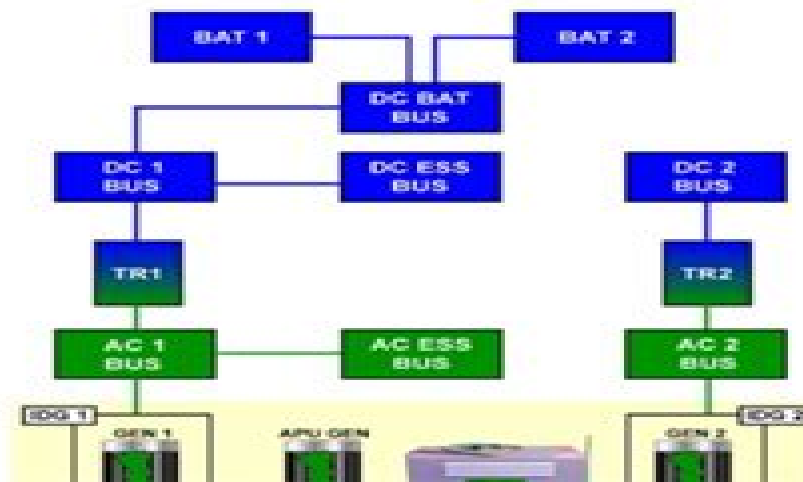
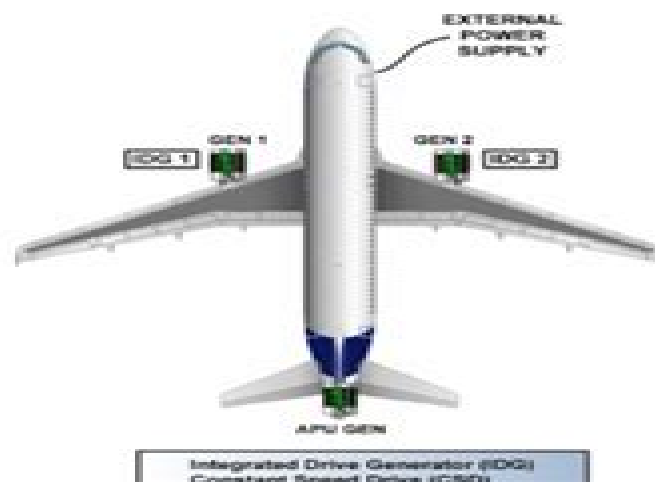
The entire electrical network can also be supplied by the APU generator. On the ground, the aircraft electrical network can be supplied by an external power source.

Any one of the power sources can supply the entire electrical network.

As no parallel connection is allowed on this A/C (split operation), we

have to give priorities to the different power sources in supplying the bus bars.

AC 1 and AC 2 buses are supplied in priority by their own side generator, then the external power, then the APU generator and then by the opposite generator.



Airbus Single Aisle Technical Training Manual

Wenbin Ji



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REFERENCIA DIGITAL PARA TMA-s (Vol. II) JOSE MANUEL MIGUELA,,EZ GARCIA,2017-02-26 El propósito de este trabajo dos volúmenes es el de tener una referencia para el seguimiento de los módulos profesionales de Técnicas digitales y sistemas de instrumentos electrónicos en aviación perteneciente al Ciclo Formativo de Grado Superior CFGS de Mantenimiento de Sistemas Electrónicos y Aviónicos en Aeronaves y Técnicas digitales y sistemas de instrumentos electrónicos en aeromecánica perteneciente al CFGS de Mantenimiento Aeromecánico en sus cuatro modalidades El Volumen I se centra en los aspectos digitales básicos como los Sistemas de Numeración el Álgebra de Boole los Circuitos Combinacionales y Secuenciales una introducción a los PLDs teoría asociada a los procesos de Conversión Analógica a Digital y Digital a Analógica y circuitos de memorias El Volumen II aborda los diferentes aspectos de la configuración física de los constituyentes de sistemas aviónicos más comunes en las aeronaves Incluye la teoría de los sistemas microprogramables computadores Lineas de Transmisión de Datos Sistemas de Representación de Datos Displays buses específicos de transmisión de información en la aeronave ARINC 429 ARINC 629 etc EMC concepto IMA etc La estructura del trabajo está basada en los contenidos que plantea el Módulo 5 de la EASA Parte 66 Apéndice I Técnicas Digitales Sistemas de Instrumentos Electrónicos uno de los módulos necesarios para la obtención de la Licencia de Mantenimiento de Aeronaves LMA y por lo tanto además de servir de referencia para el seguimiento de los módulos profesionales mencionados también puede servir como referencia para el estudio de dicho Módulo 5

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interpretation of the Chicago Convention and the Annexes as well as their amendment processes and goes on to critically analyze the role of the International Civil Aviation Organization in that context It then lays out the provisions of the four Annexes and offers legal and policy commentaries on Standards therein which are not self explanatory where applicable relevant and necessary A significant feature of the book is its conclusion which asks questions and offers point by point suggestions in response that States could benefit from in ensuring the safety of international civil aviation There has been no previous book published containing critical analyses and commentaries on Annexes 2 6 8 and 19 to the Chicago Convention in one repository of literature This book will be of interest and use to aeronautical authorities academics students of international law and air law legal practitioners and regulators worldwide **Aerospace Engineering** ,2007 **A320 Technical Training Manual** Airbus Industrie,2001

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