

WEPPS® Wireless Emergency Primary Power System

Less maintenance, fewer spare parts

FLY FOKKER

Introduction

WEPPS (Wireless Emergency Primary Power System) has been specifically developed to reduce the costs associated with emergency lighting batteries and to eliminate the complications of rechargeable battery systems. Comprising a network of battery modules and a diagnostic panel, the system streamlines flight dispatch procedures, eliminates human error and improves safety. WEPPS has an easy 'swap-in' replacement design for the existing emergency battery power packs.

Your needs

WEPPS uses new operating protocols and approved 'fit-for-life' non-rechargeable battery modules that replace conventional NiCad battery/charger packs. The system reduces costs by eliminating the emergency lighting system's restoration maintenance schedule. As a result, there is no need to maintain the batteries on a regular basis and their lifespan is potentially extended to the life of the aircraft. Installation of this modern system creates the opportunity of reducing your costs based on less maintenance and spare parts. Fokker Services offers a modern system which comprises battery packs already equipped with provisions to incorporate the 6V Led Exit signs in the near future.

The WEPPS is applicable to all airline operators using Fokker 50, 60, 70 and 100 aircraft for passenger as well as VIP transport. The solution is also available for other passenger aircraft types on request.

Your benefits

Based on proven technology, WEPPS offers a solution using battery modules that does not require charging or restoration maintenance. The system has an easy 'swap-in' replacement design for the existing emergency battery power packs.

The battery modules fit the same mounting points and require no wiring changes. The sophisticated diagnostic panel means that a system check takes approximately 10 seconds. The diagnostic panel is installed in the entrance area of the aircraft in the vicinity of one of the battery modules. It entails wiring installation and reworking in the entrance area.

The benefits of the innovative WEPPS compared to the traditional Emergency Power Lighting System are as follows:

- improvement of system reliability,
- reduced maintenance costs,
- automatic checking process,
- no human error,
- no 'walk around' test,
- less stock,
- easy installation; same mounting pattern as existing batteries.



Product description

Technical concept

The WEPPS installation comprises non-rechargeable battery modules and a sophisticated status monitoring system. The battery modules replace the existing batteries installed in the aircraft. The diagnostic panel is installed in a convenient location in the entrance area.

Approvals:	EASA approved under DOA 21J.059
Type Certificates:	EASA.A.036 (Fokker 50) & EASA.A.037 (Fokker 70/100)
Environmental Approvals:	RTCA DO160 E environmental conditions and test procedures for airborne equipment
Software Approvals:	RTCA DO178B. Software considerations in Airborne Systems and Equipment Certification
Flammability:	Conforms FAR/CS 25.853(a) Appendix F, part 1
Operation:	Operationally unchanged from current system
Installation:	Batteries part by part replacement Diagnostic panel in convenient location
Wireless Operation:	Wireless for system diagnostic, disabled in all phases of flight
Cleaning:	Cleaning with a soft cloth recommended
Power:	Uses 28VDC

FLYFokker for economic sense

WEPPS is a solution of FLYFokker, our full-service Life Cycle Support program. FLYFokker comprises a package of four solutions: Take Off, Take Care, Take Over and Take Next.

Start-up operators can Take Off with their operation in six weeks instead of typically six months. For mature Fokker operators Take Care is a complete solution to increase Technical Dispatch Reliability (TDR), reduce Direct Operating Cost (DOC) and improve passenger comfort. Operators moving to other aircraft types are supported by Fokker Services in the Take Over of the continued competitive operation of their Fokker fleet. The fourth solution is a package for the mean and lean transfer of aircraft to the next operator, entitled Take Next. Using FLYFokker makes economic sense.

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