



EPS SERIES EMERGENCY POWER SUPPLIES

The EPS Series of emergency power supplies has been designed to provide power for emergency egress lighting systems and other emergency functions on commercial aircraft. A variety of models are available for use on the 717, MD-90, MD-80, DC-10, L1011 and other aircraft.

Each of the EPS Series products consists of a battery pack, battery charger, and logic section. Upon sensing the loss of main AC aircraft power, the system switches power from the auxiliary AC line, 28 VDC, or internal battery pack to the emergency lights. Lights can also be illuminated by manual control.

Features of the EPS Series include:

- Spare battery packs are readily available and easy to replace, and the power supplies are field repairable, making maintenance simple and inexpensive.
- Batteries are rapid-charged until their capacity is reached, then the EPS Series automatically reverts to a trickle charge to maintain full battery capability.
- Constant current charging, taper charge with temperature/voltage control, and soft discharge with inrush current limiting are also incorporated to ensure that battery power is available when needed.
- The power supplies operate at rated load over a wide temperature range, enabling operation in a wide variety of climates.
- Safety features include output short circuit protection and battery low voltage cut-off.
- Low EMI ensures that the units do not interfere with other critical electronic instrumentation within the aircraft.
- The rugged, lightweight design of the EPS Series results in optimum performance, high reliability and long-lasting operation.

MODEL NO.	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	DISCHARGE TIME	TEMP. RANGE(°C)	ENVIRONMENTAL	WEIGHT (INCL. BATTERIES)
EMBS139-2	115 VAC	28 VDC	3.6 A	25 MINUTES	-20 TO +60	RTCA DO-160C	8 LBS.
EMBS141	115 VAC	28 VDC	5.5 A	15 MINUTES	-40 TO +60	RTCA DO-160C	9.9 LBS.
EMBC250	22 VDC - 30 VDC	2.0 V MIN.	5.0 A	20 MINUTES	-20 TO +70	RTCA DO-160C	1.3 LBS.
EMBC251	22 VDC - 30 VDC	6.1 V MIN.	5.6 A	20 MINUTES	-20 TO +70	RTCA DO-160C	2.95 LBS.

EM EMERGENCY POWER SUPPLIES WAS FORMED IN 1999 AS A RESULT OF THE ACQUISITION OF THE EPS SERIES FROM ENGINEERED MAGNETICS, INC. PRODUCTION MANUFACTURING APPROVALS (PMA) HAVE BEEN OBTAINED BY EM EMERGENCY POWER SUPPLIES FOR EACH OF THE MODELS LISTED ABOVE.



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