

EMPOWER®

INNOVATIVE EXPERIENCED RESPONSIVE IN-SEAT POWER SYSTEMS TRUSTED



ASTRONICS
ADVANCED ELECTRONIC SYSTEMS

Your passengers want power

The studies show it...

- 90% of airline passengers today carry mobile electronic devices onboard
- 50% are carrying WiFi enabled devices
- 36% are carrying multiple devices on-board
- This trend continues to accelerate

Carry on devices require Passenger Power availability

In-Flight Entertainment and Connectivity providers know it...

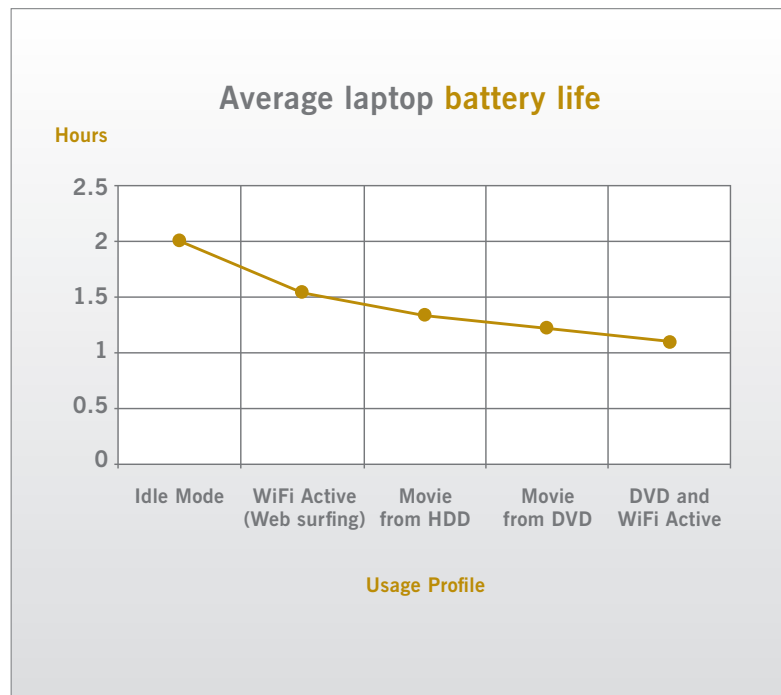
- Major IFE vendors are bundling Passenger Power with their IFE systems
- In-flight mobile phone service and SMS messaging are now realities
- Full service Internet connectivity providers business model requires Passenger Power
 - *Passengers won't pay for unlimited use when limited by a battery life averaging less than two hours*

Passenger Power is required to enable IFE functions and connectivity

Your passengers demand it...

- Average laptop battery life is less than two hours
- Passengers experience 33% less battery life with WiFi enabled on their laptop
- Passenger Power enhances the overall passenger experience
- Passengers are making their selection of carrier based on cabin amenities that include passenger power

Passengers depend on Passenger Power to remain productive and entertained

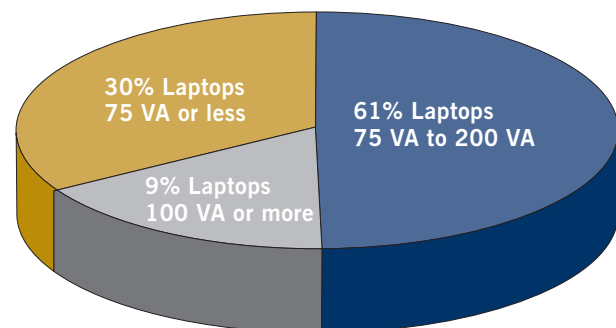




So, why choose an **EMPOWER®** system from Astronics, the world leader for intelligently managed power solutions?

- As the world leader, Astronics has over 114 airline/OEM customers and 235,000 seats installed with EMPOWER® systems
 - Intelligently managed power is Astronics core competency with over 200 commercial and military products; including flight critical systems
 - EMPOWER® systems are designed, tested and built by Astronics in-house
 - On average, EMPOWER® systems weigh 16% to 40% less than similar competing systems
 - EMPOWER® systems have the highest efficiency available in the market
 - EMPOWER® systems are the preferred power solution for aircraft OEMs, IFE suppliers and VIP aircraft completion centers
 - EMPOWER® systems provide the highest available power – up to 200VA per passenger outlet
 - Every EMPOWER® Passenger Power System is based on Astronics' patented, highly efficient power supply technology with enhanced safety features that meet or exceed the most demanding requirements
 - Multiple safety features include GFI circuit protection, intelligent thermal management, over current / over voltage protection and many more
 - In addition to being FAA/EASA certified and DO-160 compliant, PMA is available on multiple aircraft types and the 28VDC to 115VAC EmPower® System is TSO approved
- Astronics provides an unparalleled level of support:
 - *24/7 AOG support*
 - *Close proximity to OEM facilities*
 - *A program manager assigned to every airline and OEM customer*
 - *Custom field and maintenance test equipment*
 - *Comprehensive on-site training for line maintenance staff and crew*

Laptop power consumption



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