



120 Watt Continuous / 150 Watt Maximum Universal Automobile and Aircraft Power Supply for Use with Notebooks and other IT Devices

- Multiple connector system (MCS).
- Suitable for use with all Notebooks.

Input Characteristics

Input Voltage / Frequency		Input Current	Power
minimum	maximum	maximum	maximum
11 V DC	32 V DC	15 A	170 W

Output Characteristics

Output Charge Voltage		Output Current		Power		Regulation	
minimum	maximum	minimum	maximum	max.	Efficiency	Line	Load
5 V DC	24 V DC	0.0 A	8.0 A	150 Watts	92- 97 %	?	?

Operating			Storage			Relative Humidity
Temperature		Pressure	Temperature		Pressure	no Condensation 5 - 95 %
minimum	maximum	range	minimum	maximum	range	
-20 ° C	40 ° C	570 – 1200 hPa	-40 ° C	70 ° C	115 – 1200hPa	


Electrical Safety Specifications

Short Circuit	Reverse Voltage	Input Current	Housing Isolation	Cables
continuous	continuous	15 A fuse (IEC127)	IP40	Input: UL2464 Output: UL1571

Housing Specifications

Material	Length	Width	Height	Weight (approx.)	Operation Display	
PC plastic UL94-V0	224 mm (inclusive strain relief)	64.2 mm	25 mm	TBD (inc. cables & conns)	OK/Status	Green LED
Strain Relief		Injection moulded			Defect	Red LED
Over Temperature		Auto shutdown and recover				
Thermal		EN60950				

Connector and Cable Specification

Input Connector	Input Cable Length	Output Connector	Output Cable Length	Cable Styles
- IFPL™ System (In Flight Power Limiting™) - Advanced Thermal Management	Typical: ca. 100 cm		Typical: ca. 100cm	Output: AWM2464 AWG 16 Input: AWM1571 AWG14
		Full range of universal DC plugs available		

International Standards

Conducted and Radiated Emissions	Electro Static Discharge (ESD)	Radiated Electro Magnetic Fields (RS)	Electrical Fast Transient Burst (EFT)
EN 55011 Class B, EN60601-1-2 FCC 15 Part B 95/54/EG DIN 40839 Part 1 EN 55022	EN61000-4-2	EN 61000-4-3 DIN 40849 Part 4	EN61000-4-4 DIN 40839 Part 1
Lightning Surge	Conducted Radio Frequency Disturbances (CS)	Power Frequency Magnetic Field	Voltage Dips / Short Interruption / Variations
EN61000-4-5 DIN 40839 Part 1	EN61000-4-6	NA	DIN 40839 Part 1 test impulse 4: NA

Reliability

Mean time before failure (MTBF)	Burn in	Component de-rating
MIL-HDBK217F 20 000 hours	The power supply shall undergo a minimum of 4 hours burn in test at +40°C ±5°C under full load	Semiconductor junction temperatures shall not exceed the manufacturer's maximum thermal rating.


World Wide Approvals and Green Procurement

Europe	International	USA / Canada
CE – EN 60950 and E13	CB report – IEC 60950 RoHS 2002 / 95 EC and WEEE 2002 / 96 / EC	UL60950

Test Specifications

Cold	Dry Heat	Damp Heat	Shock	Vibration
IEC68-2-1	IEC68-2-2	IEC68-2-3	IEC68-2-27 & -29 & -32	IEC68-2-6
All values quoted measured at 25°C unless otherwise stated				

Ordering Codes

Product	Part Number
	CAR150U CAR150Uxxxxaa

Contact Addresses

Germany / Headquarters	France	USA	Hong Kong / China
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