

AT-iMG008

POWER SUPPLY AND BACKUP UNIT FOR iMG

Uninterruptible Power Supply (UPS), DC12V 32W.



The Allied Telesis AT-iMG008 is an uninterruptible power supply unit that provides the safety, reliability and easy-to-use features required in the customer premise environment.

The dedicated accessories allow the connection to the entire iMG family, enabling a quick and easy installation.

Serviceability

This product features an automatic process that periodically performs a battery self-test, ensuring early detection of a battery that needs to be replaced. An external LED informs the end-user that the battery needs replacing.

User-replaceable batteries increase availability by allowing a trained user/ technician to perform upgrades and replacements of the batteries reducing Mean Time to Repair (MTTR). Hot-swappable capability allows clean, uninterrupted power to protected equipment while batteries are being replaced. The AT-iMG008 can be turned on with a new charged battery, even if utility power is not available (cold-start).

Manageability

The intelligent battery management provides higher availability through intelligent, precision charging that maximizes battery performance, life, and reliability. Three external status indicator LEDs show that: utility power is present or the device is operating on battery; the system is operating as expected and output power is present; the battery needs to be replaced or has been disconnected. Audible alarms (beeps) notify end-users of the following conditions: On-Battery, Low Battery and Replace Battery. The alarms can be silenced for 24 hours by pressing the Alarm Silence Button.

Protection

The product has been tested and approved to work safely with the connected service provider equipment and within the specified environment:

Key Features

- » Up to eight hours backup time
- » Alarms
- » Automatic restart after short
- » Input line cord
- » Intelligent battery management
- » Lightning and surge protection
- » Low voltage disconnect
- » On-battery voltage regulation
- » Replace battery indicator
- » Status indicator LEDs
- » Universal input voltage range
- » User replaceable batteries
- » RoHS compliant

FCC and CE approvals. Global safety approvals achieved: UL60950, CSA60950, IEC60950, EN60950. The device meets IEC 61000-4-5 Immunity To Surge, and GR-1089-CORE, Section 4, Lightning and AC Power Faults standards.

iMG
INTELLIGENT
MULTISERVICE
GATEWAY



AT-iMG008 | Power Supply and Backup Unit for iMG

Technical Specifications

Cables for iMG Equipment

Model	Battery Backup Cable
AT-IMG606BD	AT-RG008-00
AT-IMG616BD	AT-RG009-00
AT-IMG616LH	AT-RG009-00
AT-IMG616SRF+	AT-RG009-00
AT-IMG616RF	AT-RG009-00
AT-IMG616W	AT-RG009-00
AT-IMG624A	AT-RG009-00
AT-IMG624B	AT-RG009-00
AT-IMG634A	AT-RG009-00
AT-IMG634B	AT-RG009-00
AT-IMG634WA	AT-RG009-00
AT-IMG634WB	AT-RG009-00
AT-IMG646BD	AT-RG008-00
AT-IMG626MOD	AT-IMG646MOD-C01
AT-IMG646MOD	AT-IMG646MOD-C01
AT-IMG646PX-ON	AT-RG013-00
AT-IMG726MOD	AT-IMG646MOD-C01
AT-IMG746MOD	AT-IMG646MOD-C01

Input Characteristics

Voltage	Normal voltage: 120V AC / 230V AC @ single phase Operation range: 90V AC – 264V AC (full range)
Current	Normal current: 0.75A @ 120V AC full load 0.5A @ 230V AC full load Maximum current: 1A @ 90V AC full load / 4A peak
Frequency	Normal frequency: 60Hz @ 120V AC / 50Hz @ 230V AC Operation frequency range: 47Hz – 70Hz
Leakage current	Safety maximum limit: 3.5 mA max. @ 230V AC full load
Protection	Input fuse: 6.3A / 250V AC fuse
AC efficiency (@25°C)	With full battery capacity: >79% @ 115V AC / 230V AC full load
Backup efficiency (@25°C)	Full load >90 %

Output Characteristics

Power	Normal power: 32W / 2.7A (max.)
Static voltage regulation	Normal AC mode voltage: 13.5VDC @ 25°C Normal battery mode voltage: 12VDC
Static ripple and noise (@ 25°C)	AC mode: <250mV peak-peak @ 120/230V AC full load <150mV rms @ 120/230V AC full load Battery mode stable: 120mV max. peak-peak @ full load
Turn-on delay time AC start	<5 sec. @ 100V AC full load connected DC start/cold start <3 sec. @ holding push button
Rise time	Output voltage from 5% ~ 95% <200ms. @ 120/230V AC full load connected

Over voltage protection	AC mode: <25V transient condition Transfer to battery until 10.5V shutdown
Overload protection AC mode	2.7A ± 10% charger turn-off 10 minutes (±1%) 3.5 A ± 10 % shutdown @ non-latch/after 10 seconds auto-restart Back-up mode: 3.5A ± 10 % shutdown @ non-latch/after 10 seconds Auto-restart (over load protection after 40 seconds initial)
Short circuit protection	AC mode: Shutdown: @ non-latch/after 10 seconds auto restart Back-up mode: Shutdown @ non-latch/after 10 seconds auto restart

Battery Charge /Discharge

Charge voltage	25°C ambient 13.6V ±3% 40°C ambient 13.3V ±3% -20°C ambient 14.3V ±3%
Charge current	2.1A (max.)
Recharge time (@25°C)	<24 hours recover 90% rated capacity @ after full loading discharge/normal input voltage
Battery runtime (@ 25°C/ full load) (DC start) Total	>1.7hours @ full load discharge
Battery discharge shutdown	10.5V ±3% @ full load discharge
Battery over-charge protection	15.5V ±3% charger turn-off 14.5V ±3% charger turn-on after charger over voltage protection
Battery leakage current	<150uA @ UPS off mode

Auxiliary Battery Power (ABP)

DC start	>12.5V ±3% by emergency button
Discharge range	10.5V ±0.3V ~ 21V ±1V

Indicators

System (Green LED)	AC normal Light Battery mode / low battery (Green LED) no audible alarm
On battery mode	Light
Low battery	Flash
On ABP mode	Light
Replace battery/ battery missing (Red LED)	Replace battery Light Audible alarm: 15 min. / 1 beep (On: 0.5 sec.)
Battery missing	Light No audible alarm
Auxiliary power (Green LED)	Auxiliary power present light
Emergency start button	Press and hold longer than 1 sec.
Buzzer silence button	Press 0.5 sec. < time. Enable: Audio deep once Disable: Audio deep two times

Environment

Temperature: Operating	-20°C – 50°C (-4°F to 122°F)
Non-operating/storage	-20°C – 50°C (-4°F to 122°F)
Humidity: Operating	0 – 95% relative humidity (non-condensing)
Non-operating/storage	0 – 95% relative humidity (non-condensing)
Operating altitude	0 to +10000 feet
Audible noise	< 46 dBA at 1 meter
Vibration test (non-operation)	Without packing (random) ISTA-1G With packing (random) ISTA-1G
Drop test (non-operation)	With packing ISTA-1A
Safety	UL60950-1, CAN/CSA-C22.2 No. 60950-1
EMI	FCC Part15, EN55022(CISPR22) Class B
EMS	EN55024

Physical

Dimensions (W x D x H)	21.8 cm x 17.9 cm x 7.8 cm (8.58 in x 7 in x 3.07 in)
Weight (unit)	3.34 kg (7.42 lb) with 12V/7Ah battery

Connectors

Input connector	IEC320/ C5 3-wire
Output connector	3.5mm removable, 7-pin screw terminal connector (accepts 16-26 AWG)

Ordering Information

AT-IMG008G-xx
Grounded Uninterruptable Power Supply (UPS), DC12V 32W

AT-IMG008-xx
Uninterruptable Power Supply, DC12V 32W

AT-IMG008NB-xx
Uninterruptable Power Supply, DC12V 32W, without battery. Battery must be ordered separately.

AT-IMG008GNB-xx
Grounded Uninterruptable Power Supply, DC12V 32W, without battery. Battery must be ordered separately.

Where xx =	10 for U.S. power cord 30 for U.K. power cord 40 for Australian power cord 50 for European power cord
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Options

AT-RG008-00
Battery backup cable

AT-RG009-00
Battery backup cable

AT-RG013-00
Battery backup cable

AT-IMG646MOD-CO1
Modular intelligent Multiservice Gateway



the solution : the network

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