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Data Sheet

August 15, 2026

ACOPIAN

Acopian W28GT42 Regulated Power Supply

Acopian W28GT42 Gold Box Switching Regulated Power Supply 28 V 42 A The W28GT42 is an Acopian Gold Box switching AC-DC supply, 28 V nominal at 42 A (40 C) / 29 A (71 C), case WG7. OEM Gold Box switching catalog lists 90-132 VAC 49-61 Hz single phase (30 A line recommended; derate output 5 percent on 50 Hz), line and load regulation plus or minus 0.05 percent or 5 mV whichever is greater (3.3-48 V models), ripple 15 mV RMS / 100 mV p-p at 25 MHz BW, efficiency 81 percent typical, holdup 33 ms min at nominal input full load, startup 400 ms max (250 ms typical), drift plus or minus 0.1 percent typical over 8 hours after 30 min, TC plus or minus 0.02 percent per C typical, remote sense 0.5 V per line, inhibit plus 2 to plus 30 Vdc, WG7 weight 10 lb 6 oz, operating 0 to plus 71 C, storage minus 40 to plus 85 C. The W28GT42 is an Acopian Gold Box switching AC-DC supply, 28 V nominal at 42 A (40 C) / 29 A (71 C), case WG7. OEM Gold Box switching catalog lists 90-132 VAC 49-61 Hz single phase (30 A line recommended; derate output 5 percent on 50 Hz), line and load regulation plus or minus 0.05 percent or 5 mV whichever is greater (3.3-48 V models), ripple 15 mV RMS / 100 mV p-p at 25 MHz BW, efficiency 81 percent typical, holdup 33 ms min at nominal input full load, startup 400 ms max (250 ms typical), drift plus or minus 0.1 percent typical over 8 hours after 30 min, TC plus or minus 0



MODEL

Acopian W28GT42

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

W28GT42

LISTING

<https://aumictechlabs.com/products/w28gt42-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acopian W28GT42 is a switching regulated AC-DC power supply engineered for industrial and commercial applications. It delivers a single 28V DC output at 42A (1176W total power) from a compact, chassis-mounted enclosed enclosure. The unit accepts input across multiple AC ranges - 90–132 VAC, 105–205 VAC, or 180–264 VAC (W28GT42-230 variant) - at 50–400 Hz, making it suitable for global single-phase installations.

Technical Specifications
Output Voltage: 28V DC
nominal Output Current: 42A Power Output: 1176W Input Voltage (Standard): 105–125 VAC or 105–205 VAC Input Frequency: 50–400 Hz Efficiency: 81% Isolation Voltage: 1.4 kV Dimensions: 10.25" L × 7.90" W × 3.44" H (260.4 mm × 200.7 mm × 87.4 mm) Weight: 9.00 lbs Operating Temperature: 0°C to 71°C Storage Temperature: –55°C to +85°C

Key Features
Adjustable output voltage for system flexibility Remote on/off control capability Remote sense input for load-line compensation Electronic current limiting with automatic short-circuit recovery Floating output - either terminal can be grounded or floated up to 300V above ground UR standards compliance

Typical Applications
Well-suited for ITE (Commercial) environments and industrial equipment requiring regulated 28V DC power at high current density with compact form factor.

Compatibility & Integration
Chassis mounting design integrates directly into panel-mount installations. Remote control and sensing facilitate integration into automated systems and distributed power architectures.

W28GT42 Characteristics / Specifications

PARAMETER	VALUE
Model	W28GT42
Instrument Type	Switching regulated AC-DC power supply
Family	Acopian Gold Box switching single output
Nominal Voltage	28 V
Output Current 40 C	42 A
Output Current 71 C	29 A
Adjust Range	plus or minus 1 V
Ripple Rms	15 mV RMS at 25 MHz BW
Ripple Peak To Peak	100 mV p-p at 25 MHz BW
Efficiency	81 percent typical at nominal input full load
Case Size	WG7
Case Weight	10 lb 6 oz
Input Voltage	90 to 132 VAC, 49 to 61 Hz, single phase
Line Recommendation	30 A line recommended; derate output 5 percent when operating on 50 Hz
Line Regulation	plus or minus 0.05 percent or 5 mV, whichever is greater
Load Regulation	plus or minus 0.05 percent or 5 mV, whichever is greater
Holdup Time	33 ms minimum at nominal input voltage with full load
Startup Time	400 ms maximum (250 ms typical)
Drift	plus or minus 0.1 percent typical over 8 hours after 30 minute warmup
Temperature Coefficient	plus or minus 0.02 percent perCtypical
Transient Response	300 us to return to plus or minus 1 percent; max plus or minus 3 percent excursion for 50 to 100 percent load step
Remote Sensing	compensates up to 0.5 V drop per output line
Overload Protection	foldback current limiting with automatic recovery
Overvoltage Protection	latches OFF; reset by removing AC; red indicator

PARAMETER	VALUE
Output Inhibit	plus 2 to plus 30 Vdc disables supply (TTL compatible)
Operating Temperature	0 to plus 71 C
Storage Temperature	minus 40 to plus 85 C
Dielectric Input Output	1400 Vdc
Manufacturer	Acopian
Literature	Acopian Gold Box Switching Regulated AC-DC catalog (W28GT42 WG7 row)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 to plus 85 C
Operating temperature	0 to plus 71 C
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Dielectric Input Output	1400 Vdc
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Literature	Acopian Gold Box Switching Regulated AC-DC catalog (W28GT42 WG7 row) Notes
From Acopian Gold Box switching catalog (W28GT	28 V, 42 A at 40 C / 29 A at 71 C, 15/100 mV ripple, 81 percent, WG7 10 lb 6 oz). 180-264 VAC is the separate 230 suffix overlay; do not assume it on an unmarked W28GT42.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.