ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Siemens 6EP1 437-2BA10* at our website: *Click HERE*

SIEMENS

Data sheet 6EP1437-2BA10

SITOP POWER 24 V/40 A
SITOP POWER 40 STABILIZED POWER SUPPLY INPUT: 400-500 V 3 AC OUTPUT: 24 V DC/40 A

Input	
Input	3-phase AC
Rated voltage value Vin rated	400 ... 500 V
Voltage range AC	360 ... 550 V
• Note	340 ... 360 V for max. 2 s or at max. 0.9 x Iout rated
Wide-range input	Yes
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at Iout rated, min.	3 ms; at Vin = 360 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 ... 63 Hz
Input current	
• at rated input voltage 400 V	1.9 A
Switch-on current limiting (+25 °C), max.	25 A
I^2t, max.	1 $A^2 \cdot s$
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker characteristic C up to 25 A (recommended: 6 A) or circuit-breaker 3RV1021-1DA10 (setting 3 A) or 3RV1721-1DD10 (UL 489)

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	200 mV
Adjustment range	22.8 ... 26.4 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer; only permissible at ambient temperatur 0 °C to +45 °C
Status display	Green LED for 24 V OK
On/off behavior	Slight overshoot of Vout (< 2 V for max. 500 ms)
Startup delay, max.	3 s
Voltage rise, typ.	40 ms
Rated current value Iout rated	40 A

Subject to change without notice
© Copyright Siemens

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Current range	0 ... 40 A
Supplied active power typical	960 W
Short-term overload current	
• on short-circuiting during the start-up typical	70 A
• at short-circuit during operation typical	70 A
Duration of overloading capability for excess current	
• on short-circuiting during the start-up	600 ms
• at short-circuit during operation	600 ms
Parallel switching for enhanced performance	Yes; only permissable at ambient temperature 0 °C to 45 °C
Numbers of parallel switchable units for enhanced performance	2

Efficiency

Efficiency at Vout rated, Iout rated, approx.	90 %
Power loss at Vout rated, Iout rated, approx.	107 W

Closed-loop control

Dynamic mains compensation (Vin rated ±15 %), max.	1 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	4 %
Setting time maximum	3 ms

Protection and monitoring

Output overvoltage protection	Yes, according to EN 60950
Current limitation	42 ... 52 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current RMS value	
• maximum	62 A
Overload/short-circuit indicator	-

Safety

Primary/secondary isolation	Yes
Galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	0.78 mA
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
Explosion protection	-
FM approval	-
CB approval	Yes
Marine approval	-
Degree of protection (EN 60529)	IP20

Subject to change without notice
© Copyright Siemens

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

Operating data	
Ambient temperature	
• during operation	0 ... 55 °C
— Note	with natural convection
• during transport	-25 ... +85 °C
• during storage	-25 ... +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	
• Supply input	L1, L2, L3, PE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
• Output	L+: 1 screw terminal for 0.33 ... 10 mm²; M: 2 screw terminals for 0.33 ... 10 mm²
• Auxiliary	-
Width of the enclosure	280 mm
Height of the enclosure	180 mm
Depth of the enclosure	92 mm
Required spacing	
• top	50 mm
• bottom	50 mm
• left	40 mm
• right	0 mm
Weight, approx.	3.6 kg
Product feature of the enclosure housing for side-by-side mounting	No
Installation	Snaps onto DIN rail EN 60715 35x15
Mechanical accessories	Mounting bracket 90° (6EP1971-2BA00)
MTBF at 40 °C	515 274 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

Subject to change without notice
© Copyright Siemens

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP