

ABP

SINGLE PHASE – THREE TO SINGLE PHASE – THREE PHASE

A.C. POWER SOURCE

adjustable output voltage

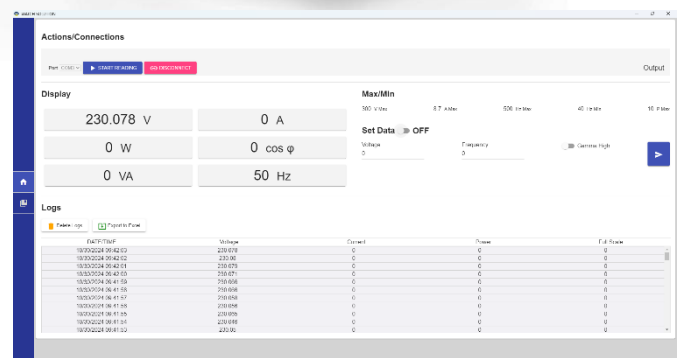
adjustable frequency

TECHNICAL SPECIFICATION



NEW 2024/2025!

**REMOTE CONTROL SOFTWARE AND
AUTOMATIC TESTING CYCLES!**



Main Features

- Double conversion
- SPWM and IGBT
- Low harmonic distortion
- Fixed and variable selectable
- Pure sine wave output
- Isolated output transformer
- LED/LCD display, key buttons
- Complete protections
- Single & triple phase available



ABP SERIES 1kVA ~ 2000kVA
AC Power Supply
Solid State Frequency Converter



K-FACTOR ABP series solid state / static frequency converter is one of the most popular AC power supplies designed to change AC power at 50Hz to 60Hz or 60Hz to 50Hz, or convert conventional 50/60 Hertz to 400Hz or convert 50/60Hz to 16.67Hz/25Hz/100Hz.

For Applications

- Home appliance
- Electrical equipment
- Laboratory and test
- Aviation and avionics
- Marine electronics
- Motors and pumps

K-factor POWER SOLUTION EXPERT

SINCE 1997, We Have Been Committed To Providing Excellent Power Products And Solutions To Customers Around The World.

GOOD QUALITY

K-FACTOR ABP series solid state / static frequency converter is one of the most popular AC power supplies for industrial/commercial application.

ADVANCED TECHNOLOGY

K-FACTOR ABP series static converters adopt built-in rectifier to convert incoming AC power into DC and then invert the DC into desired frequency and voltage thru IGBT and built-in isolation transformer.

FUNCTION

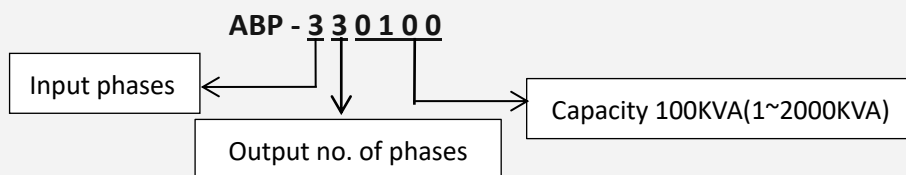
K-FACTOR AC power supplies designed to change AC power at 50Hz to 60Hz or 60Hz to 50Hz or convert conventional 50/60 Hertz to 400Hz or convert 50/60Hz to 16.67Hz/25Hz/100Hz.

MAIN JOB

K-FACTOR ABP series features in many advantages, making them ideal not only for export product testing or operation of imported equipment, but also for applications such as the testing of military/avionics equipment or for the operation of 400 hertz electronics that are onboard an aircraft or a military vessel.

MODEL SELECTION

Model Selection of K-FACTOR ABP series solid state frequency converter shown below

**TECHNICAL SPECIFICATION**

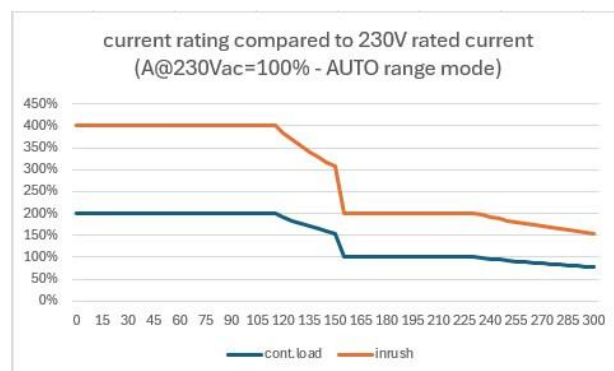
Rated power	Single Phase output units: 1kVA, 3kVA, 5kVA, 10kVA, 15kVA, 20kVA, 30kVA, 50kVA, 60kVA, 75kVA, 100kVA, 150kVA, 200kVA (Select One specific kVA) 3-Phase output units: 1kVA, 3kVA, 6kVA, 9kVA, 15kVA, 20kVA, 30kVA, 45kVA, 60kVA, 100kVA, 150kVA, 200kVA, 300kVA, 400kVA, 500kVA~2000kVA (Select One kVA)
Input	
Single phase models	230Vac ±10% alternative input voltage on request: 110Vac ±10%, 115Vac ±10%, 120Vac ±10%, 127Vac ±10%, 220Vac ±10%, 240Vac±10%
Three phase models Three to single phase models	230/400Vac ±10% alternative input voltage on request: 120/208Vac ±10%, 127/220Vac ±10%, 220/380Vac ±10%, 240/415Vac ±10%, 254/440Vac ±10%, 277/480Vac ±5%
Frequency	50Hz/60Hz ±5%, 400Hz (Optional)
Power factor	≥ 0.8 (standard type)
	≥ 0.9 (optional type, 12 pulse)
Output	
Single phase models	0~150Vac adjustable, 0~300Vac adjustable alternative output on request: 110Vac, 115Vac, 120Vac, 127Vac, 220Vac, 230Vac, 240Vac
Three phase models	0~260Vac adjustable, 0~520Vac adjustable alternative output on request: 120/208Vac, 127/220Vac, 220/380Vac, 230/400Vac, 240/415Vac, 254/440Vac, 277/480Vac
Frequency	40-500Hz adjustable alternative output frequency on request: 50Hz, 60Hz, 100Hz, 200Hz, 45-200Hz adjustable, 400Hz, 40Hz~500Hz adjustable, 16.67Hz, 25Hz, 400-1000Hz
Voltage Accuracy	≤ ±1% FS (Full Scale)
Frequency Accuracy	≤ ±0.01% FS (Full Scale)

ABP SERIES - 1kVA ~ 2000kVA

K-FACTOR Reserves the right to change or modify product design, construction, specification or material without prior notice and without incurring any obligation.

Total harmonic distortion	THD $\leq$ 3% @ linear load, pure sine wave output THD $\geq$ 5 $\leq$ 10% @ NO linear load, pure sine wave output
Crest Factor	3:1
Overload	100% continuous load, $\leq$ 110% - 15 minutes, $\leq$ 125% - 10 minutes $\leq$ 150% - 1 minute, $\leq$ 200% - 5 seconds > 200% output cut off
Interface	RS232 (standard) - RS485/GPIB (optional)
Protection	Over current, overload, Over voltage, overtemperature, short circuit, Alarm and indicators
Enclosure IP	IP22 (Standard) , IP32/ IP54(Optional) Or as per requirement
LCD display	Digital frequency meter
	Digital voltage meter
	Digital current meter
	Digital power/PF meter
Working condition	
Temperature	Operating: -10°C ~ 55°C
	Ambient: -10°C ~ 45°C
Noise Level	$\leq$ 65dB at 1 meter
Humidity	10~90% non-condensing
Altitude	$\leq$ 1800m
Reliability and Efficiency	
Mean Time Between Failure (MTBF)	50,000 H
Mean Time To Restore (MTTR)	< 30 min
Overall efficiency	$\geq$ 85%
Standards	EN50054-95 EN 50150-1991 EN 50150-2006 EN 50171-1992 GBT 5465.2-2008 GB/T 16935.5-2008 GB/T 16935.4-2011

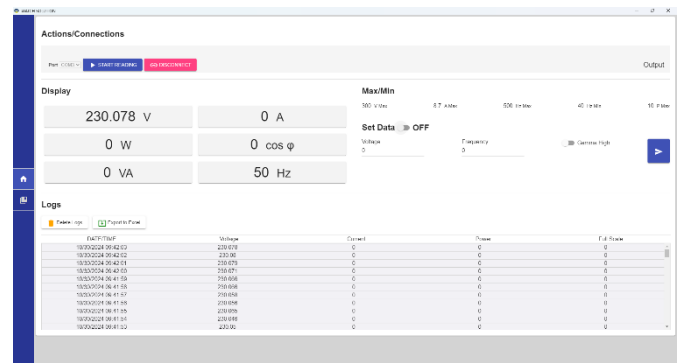
DIMENSIONS E WEIGHT



Product code	Power KVA	CURRENT A 115V	CURRENT A 230V	input	Output	Dimensions (WxDxH) mm	Net weight (Kg)
ABP11001	1	8,7	4,3	SINGLE PHASE	SINGLE PHASE	430x380x133	22
ABP11002	2	17,4	8,7	SINGLE PHASE	SINGLE PHASE	430x450x178	29.5
ABP11003	3	26,1	13,0	SINGLE PHASE	SINGLE PHASE	430x450x178	32
ABP11005	5	43,5	21,7	SINGLE PHASE	SINGLE PHASE	430x550x430	55
ABP11005R	5	43,5	21,7	SINGLE PHASE	SINGLE PHASE	485X550X222	55
ABP11007	7.5	65,2	32,6	SINGLE PHASE	SINGLE PHASE	430x550x630	88
ABP31010	10	87,0	43,5	SINGLE PHASE	SINGLE PHASE	430x550x630	107
ABP31015	15	130,4	65,2	THREE PHASE	SINGLE PHASE	430x550x800	128
ABP31020	20	173,9	87,0	THREE PHASE	SINGLE PHASE	430x550x800	145
ABP31030	30	260,9	130,4	THREE PHASE	SINGLE PHASE	550x700x800	220
ABP31050	50	434,8	217,4	THREE PHASE	SINGLE PHASE	600x700x1350	360
ABP31060	60	521,7	260,9	THREE PHASE	SINGLE PHASE	600x700x1350	400
ABP33001 (ABP13001)	1	2,9	1,4	THREE PHASE (or single phase)	THREE PHASE	430x550x222	45
ABP33003 (ABP13003)	3	8,7	4,3	THREE PHASE (or single phase)	THREE PHASE	430x550x430	62
ABP33006	6	17,4	8,7	THREE PHASE	THREE PHASE	430x650x600	92
ABP33009	9	26,1	13,0	THREE PHASE	THREE PHASE	430x650x600	121
ABP33015	15	43,5	21,7	THREE PHASE	THREE PHASE	550x700x800	155
ABP33020	20	58,0	28,9	THREE PHASE	THREE PHASE	550x700x800	175
ABP33030	30	87,0	43,4	THREE PHASE	THREE PHASE	550x900x1000	290
ABP33045	45	130,4	65,0	THREE PHASE	THREE PHASE	1000x550x1300	440
ABP33060	60	173,9	86,7	THREE PHASE	THREE PHASE	1000x550x1300	470
ABP33100	100	289,9	144,5	THREE PHASE	THREE PHASE	1000x700x1450	600
ABP33150	150	434,8	216,8	THREE PHASE	THREE PHASE	1250x880x1450	780

NEW 2024/2025!

THE NEW REMOTE MANAGEMENT SOFTWARE OF THE ABP SYSTEM FROM WINDOWS PC IS AVAILABLE, with complete management of output voltages and frequencies, reading and recording of test data on XLS files, management of an infinite number of test cycles, each with max 128 combinations of voltage, frequency and duration of the test step, for complete automation of tests even in the presence of numerous different types of operation (optional).

**SERVICES**

K-FACTOR SRL applies for various specific applications and power solution: electric environmental consideration, load arrangements optimization, power capacity matching advice, customization design, high effective manufacturing, on time technical support & etc.
Any power problem, go to K-FACTOR !

SHORT DELIVERY

Part of our models are available from stock.
6-8 weeks for the standard models, please feel free to contact with us if you want a very short lead time on deliveries due for certain model.

CUSTOMIZED SOLUTIONS

K-FACTOR SRL is able to meet most requirements of customers.
If custom built solutions are required, we can redesign & make it according to certain quantity requirement.



1 - three phase models from 45kVA

**K-FACTOR SRL**

Via Giotto 9
42014 Castellarano RE - Italy
www.kfactor.it
e-mail: info@kfactor.it
Tel: +39-0536261380
Whatsapp service: +393518052001

K-FACTOR PRODUCTS RANGE

Frequency Converter / AC Power Supply
Single and three phase Electric
Transformers up to 1000kVA
Static Voltage Stabilizer
Servo Voltage Stabilizer
DC Power Supply / Battery charger
Uninterruptible Power Supply (UPS)
Resistive/Electronic Load Bank
Pure Sine Wave Dc To Ac Inverter