

J Series

MULTI-KVA AC POWER SYSTEMS 2 to 70 KVA

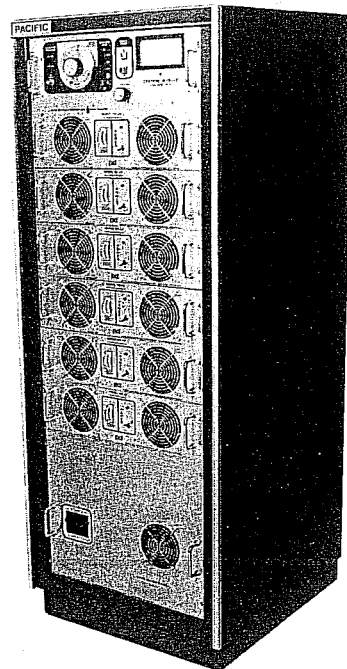
Pacific's "J" Series systems are fully regulated, all solid state, linear AC Power converters, for the production of single phase, three phase delta, or three phase WYE output power.

BASIC SYSTEM CONSTRUCTION

"J" Series power systems utilize modular construction to permit instant assembly of systems to a wide variety of configurations and power levels.

Two module types are utilized to assemble all systems: The control module which houses the oscillator and dictates the output configuration, and the requisite number of identical parallellable 1.3 KVA power modules. All are mounted in an attractive main frame, forming a complete system.

Easy servicing is insured by the fact that there are only two basic modules to be knowledgeable of, one of which (the power amplifier) has self-diagnostic circuitry which not only locates the defective device but isolates it as well, allowing the system to continue operating unaffected for servicing when convenient, thus greatly increasing the system output reliability.



CONTROL CHARACTERISTICS

Each Pacific AC Power System is equipped with a control module. This control module contains the oscillator, dictates the output configuration and provides all of the control functions.

Control modules are available for both single and 3 phase systems.

"B" VARIABLE CONTROL — 3 Phase

FREQUENCY RANGE: Continuously variable 47 to 500 Hz Accuracy $\pm 2\%$, Stability 0.25%

FIXED FREQUENCIES: Three pushbutton selectable fixed frequencies 50, 60 and 400 Hz or as specified by user. Accuracy $\pm 0.1\%$, Stability 0.1%.

Pushbutton switches are equipped with lock button to prevent accidental changes.

CONFIGURATION: WYE or Delta

METERING: Output voltage, pushbutton selectable phases A, B and C to Neutral and A to B, B to C and A to C. Current meter located on each power amplifier module.

AMPLITUDE CONTROL: Master varies all outputs 0 to full output; $\pm 10\%$ trim on each phase.

EXTERNAL INPUTS: One per phase allows the system to be utilized as 3 independent amplifiers.

SIZE: 7"H x 19"W x 17"D

WEIGHT: 20 lbs.

"H" FIXED CONTROL — 3 Phase

FREQUENCY: Specified by user. Accuracy $\pm 0.1\%$, Stability 0.1%

CONFIGURATION: WYE or Delta

AMPLITUDE CONTROL: Master Control varies output 0 to full output. $\pm 10\%$ trim on each phase.

SIZE: 7"H x 19"W x 17"D

WEIGHT: 20 lbs.

The "B" type control modules offer variable operating parameters and are intended for lab type use where a great degree of flexibility is required.

The "H" type control modules are intended for fixed parameter applications, often preferred because they prevent unauthorized changes in operating parameters.

"B" VARIABLE CONTROL — 1 Phase

FREQUENCY RANGE: Continuously Variable 47 to 500 Hz. Accuracy $\pm 2\%$, Stability 0.25%

FIXED FREQUENCIES: Three pushbutton selectable fixed frequencies 50, 60 and 400 Hz or as specified by user. Accuracy $\pm 0.1\%$, Stability 0.1%

Pushbutton switches are equipped with lock button to prevent accidental charges.

EXTERNAL INPUT: Allows unit to be used as power amplifier.

METERING: Output voltage current meters on each power amplifier.

AMPLITUDE CONTROL: 0 to full output

SIZE: 7"H x 19"W x 17"D

WEIGHT: 20 lbs.

"H" FIXED CONTROL — Single Phase

FREQUENCY: Specified by user. Accuracy 0.1%, Stability 0.1%

AMPLITUDE CONTROL: 0 full output

SIZE: 7"H x 19"W x 17"D

WEIGHT: 20 lbs.

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BASIC MODEL 1.3 KVA POWER AMPLIFIER

The Model 113-JO 1.3 KVA Power Module is the heart of Pacific's AC Power Systems. It is a completely self-contained linear power amplifier, with Pacific's disconnect feature built in. There are two disconnect features in this module, one is the self-healing circuitry which isolates and locates

- OUTPUT POWER:** 1.3 KVA (See chart on Page 5).
- OUTPUT VOLTAGE:** 0-130 VAC.
- OUTPUT CURRENT:** 10 amps RMS.
- OUTPUT PEAK CURRENT:** 20 amps at crest of sine wave.
- METERING:** 0-10 amps.
- AUTOMATIC DISCONNECT:** Self-healing circuitry incorporated which removes failed output device without disturbing output power or derating module capability.

faulty power devices, and the other is the module disconnect which permits the entire module to disconnect. These features combined with conservative designs have provided for the ultimate in reliability.

- PARALLEL:** Any number of modules may be connected in parallel for increased power within a system.
- COOLING:** Forced air front intake, rear exhaust.
- SIZE:** 5 1/4" H x 19" W x 17" D (fits any standard 19" Rack).
- WEIGHT:** 25 lbs.

*For detailed performance specifications see system PERFORMANCE Section next page.

SYSTEM PERFORMANCE

The following specifications apply to all of the listed models, in the case of 3 phase outputs the performance parameters refer to each phase.

The control characteristics of each model are determined by the control module utilized. The model listing include a designation for control characteristics.

- VOLTAGE RANGE:** See Model Listings.
- OUTPUT CURRENT:** See Model Listings.
- OUTPUT PEAK CURRENT:** Twice rms current of sinewave for driving peak type loads such as DC power supplies.
- POWER FACTOR:** Any. See chart on Page 5.
- LOAD REGULATION:** 0.25% 0-130 VAC Range—Other Ranges add 2%
- LINE REGULATION:** 0.1% Max.
- OUTPUT DISTORTION:** 0.75% Max. (Typical 0.4%).
- OUTPUT MODULATION:** 0.25% Max.
- ISOLATION:** Floating output, any output terminal may be grounded.

- OUTPUT PROTECTION:** Electronic current limiting with auto-recovery. Bypass network protects unit from transients fed back into the output terminals.
- RESPONSE TIME:** 50 microseconds.
- METERING:** Voltage—in control module. Current meter located in each 1.3 KVA module.
- COOLING:** Each module has forced air cooling. Front intake rear exhaust; top exhaust is optional.
- TEMPERATURE RANGE:** 0-55 degrees Cent.
- EFFICIENCY:** 60% max. (Varies with load P.F. and output voltage).
- LINE SURGE:** Special circuits prevent excessive line surges during turn on.
- INPUT POWER:** Almost any 1 phase or 2 phase line may be accommodated. See Main Frame Specifications.
- OUTPUT STORAGE:** Unit maintains full output when subjected to a 6 ms line power interruption. See chart on Page 5.

MAIN FRAMES

3 basic main frames are utilized for all of the "J" Series models. These main frames are used separately or may be combined for high power systems. These main frames contain mounting slides for modules, line power circuit breaker, AC and DC power distribution and space for optional equipment.

- 3MF:** Houses up to 3 power amplifier modules (4KVA) and 1 control module.
- 6MF:** Houses up to 6 power amplifier modules (8KVA) and 1 control module.
- 9MF:** Houses up to 9 power amplifier modules (12KVA) and 1 control module.

WYE and Delta outputs may be provided for simultaneous use by the addition of a Wye to Delta transformer in the main frame. Systems of power capacity between 12 and 70 KVA are housed in multiple cabinets.

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MAIN FRAME	DIMENSIONS	WEIGHT	ACCEPTABLE INPUT POWER FORMS
3MF	43" H X 23" W X 25 1/2" D	370	A B C E & F
6MF	61" H X 23" W X 25 1/2" D	575	A B C D E & F
9MF	78" H X 23" W X 25 1/2" D	675	A B C & D

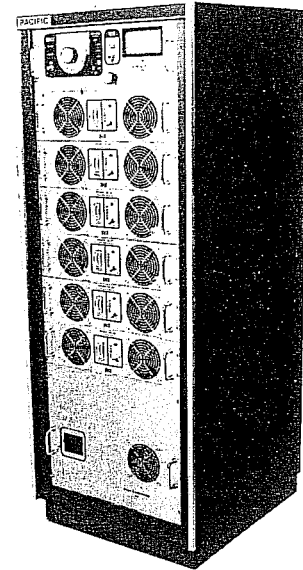
INPUT POWER FORMS

Form	Voltage	Frequency	Configuration
Form A.	240 VAC ± 10%	47 to 63 HZ	3Ø Delta
Form B.	120 VAC ± 10%	47 to 63 HZ	3Ø Delta
Form C.	120/208 VAC ± 10%	47 to 63 HZ	3Ø Wye
Form D.	440 VAC ± 10%	47 to 63 HZ	3Ø Delta
Form E.	240 VAC ± 10%	47 to 63 HZ	1Ø
Form F.	120 VAC ± 10%	47 to 63 HZ	1Ø

J Series

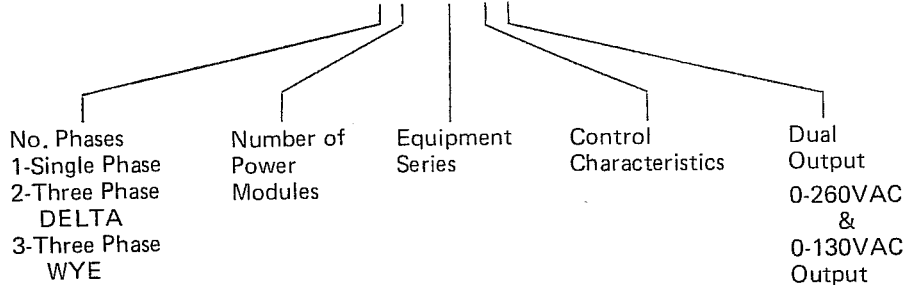
STANDARD MODELS

Each of the following listed models are complete systems ready for use. The control characteristics of each model are referenced for your convenience. Although these models will answer most power requirements, variations of each model are available.



MODEL NUMBER DEFINITION

330 J-HT



SINGLE PHASE SYSTEMS

Model	Output Power (KVA)	Output Current (Amps)	Output Voltage Range	Control Characteristics	Frame Size
120J-B	2.5	20	0-130 VAC	B	3MF
120J-H	2.5	20	0-130 VAC	H	3MF
120J-BT	2.5	20/10	0-130/0-260 VAC	B	3MF
120J-HT	2.5	20/10	0-130/0-260 VAC	H	3MF
130J-B	4	30	0-130 VAC	B	3MF
130J-H	4	30	0-130 VAC	H	3MF
130J-BT	4	30/15	0-130/0-260 VAC	B	3MF
130J-HT	4	30/15	0-130/0-260 VAC	H	3MF
140J-B	5	40	0-130 VAC	B	6MF
140J-H	5	40	0-130 VAC	H	6MF
140J-BT	5	40/20	0-130/0-260 VAC	B	6MF
140J-HT	5	40/20	0-130/0-260 VAC	H	6MF
150J-B	6.5	50	0-130 VAC	B	6MF
150J-H	6.5	50	0-130 VAC	H	6MF
150J-BT	6.5	50/25	0-130/0-260 VAC	B	6MF
150J-HT	6.5	50/25	0-130/0-260 VAC	H	6MF
160J-B	8	60	0-130 VAC	B	6MF
160J-H	8	60	0-130 VAC	H	6MF
160J-BT	8	60/30	0-130/0-260 VAC	B	6MF
160J-HT	8	60/30	0-130/0-260 VAC	H	6MF
170J-B	9	70	0-130 VAC	B	9MF
170J-H	9	70	0-130 VAC	H	9MF
170J-BT	9	70/35	0-130/0-260 VAC	B	9MF
170J-HT	9	70/35	0-130/0-260 VAC	H	9MF
180J-B	10.5	80	0-130 VAC	B	9MF
180J-H	10.5	80	0-130 VAC	H	9MF
180J-BT	10.5	80/40	0-130/0-260 VAC	B	9MF
180J-HT	10.5	80/40	0-130/0-260 VAC	H	9MF

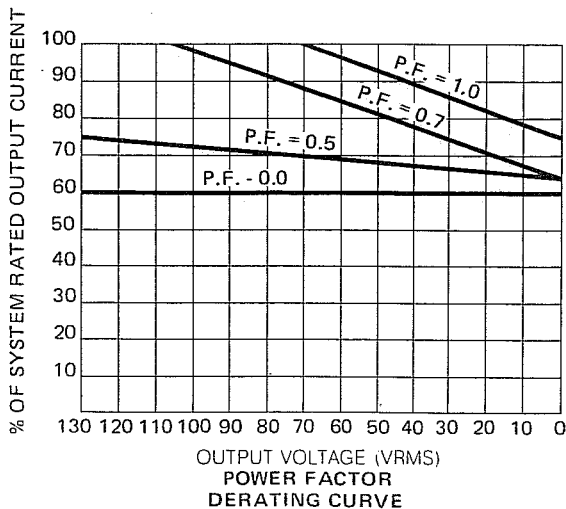
Model	Output Power (KVA)	Output Current (Amps)	Output Voltage Range	Control Characteristics	Frame Size
190J-B	12	90	0-130 VAC	B	9MF
190J-H	12	90	0-130 VAC	H	9MF
190J-BT	12	90/45	0-130/0-260 VAC	B	9MF
190J-HT	12	90/45	0-130/0-260 VAC	H	9MF
1120J-B	15	120	0-130 VAC	B	2 ea. 6MF
1120J-H	15	120	0-130 VAC	H	2 ea. 6MF
1120J-BT	15	120/60	0-130/0-260 VAC	B	2 ea. 6MF
1120J-HT	15	120/60	0-130/0-260 VAC	H	2 ea. 6MF
1180J-B	24	180	0-130 VAC	B	2 ea. 9MF
1180J-H	24	180	0-130 VAC	H	2 ea. 9MF
1180J-BT	24	180/90	0-130/0-260 VAC	B	2 ea. 9MF
1180J-HT	24	180/90	0-130/0-260 VAC	H	2 ea. 9MF
1270J-B	35	270	0-130 VAC	B	3 ea. 9MF
1270J-H	35	270	0-130 VAC	H	3 ea. 9MF
1270J-BT	35	270/135	0-130/0-260 VAC	B	3 ea. 9MF
1270J-HT	35	270/135	0-130/0-260 VAC	H	3 ea. 9MF
1360J-B	45	360	0-130 VAC	B	4 ea. 9MF
1360J-H	45	360	0-130 VAC	H	4 ea. 9MF
1360J-BT	45	360/180	0-130/0-260 VAC	B	4 ea. 9MF
1360J-HT	45	360/180	0-130/0-260 VAC	H	4 ea. 9MF
1450J-B	60	450	0-130 VAC	B	5 ea. 9MF
1450J-H	60	450	0-130 VAC	H	5 ea. 9MF
1450J-BT	60	450/225	0-130/0-260 VAC	B	5 ea. 9MF
1450J-HT	60	450/225	0-130/0-260 VAC	H	5 ea. 9MF
1540J-B	70	540	0-130 VAC	B	6 ea. 9MF
1540J-H	70	540	0-130 VAC	H	6 ea. 9MF
1540J-BT	70	540/270	0-130/0-260 VAC	B	6 ea. 9MF
1540J-HT	70	540/270	0-130/0-260 VAC	H	6 ea. 9MF

3-phase DELTA systems

3-phase WYE systems

Model	Total Output Power KVA	Current Per Leg (Amps)	Output Voltage Range	Control Characteristics	Frame Size
220J-B	2	10	0-130 VAC	B	3MF
220J-H	2	10	0-130 VAC	H	3MF
220J-BT	2	10/5	0-130/0-260 VAC	B	3MF
220J-HT	2	10/5	0-130/0-260 VAC	H	3MF
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250J-B	4	20	0-130 VAC	B	3MF
250J-H	4	20	0-130 VAC	H	6MF
240J-BT	4	20/10	0-130/0-260 VAC	B	6MF
240J-HT	4	20/10	0-130/0-260 VAC	H	6MF
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260J-B	6	30	0-130 VAC	B	6MF
260J-H	6	30	0-130 VAC	H	6MF
260J-BT	6	30/15	0-130/0-260 VAC	B	6MF
260J-HT	6	30/15	0-130/0-260 VAC	H	6MF
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280J-B	8	40	0-130 VAC	B	2 ea. 6MF
280J-H	8	40	0-130 VAC	H	2 ea. 6MF
280J-BT	8	40/20	0-130/0-260 VAC	B	2 ea. 6MF
280J-HT	8	40/20	0-130/0-260 VAC	H	2 ea. 6MF
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2120J-B	12	60	0-130 VAC	B	2 ea. 6MF
2120J-H	12	60	0-130 VAC	H	2 ea. 6MF
2120J-BT	12	60/30	0-130/0-260 VAC	B	2 ea. 6MF
2120J-HT	12	60/30	0-130/0-260 VAC	H	2 ea. 6MF
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2180J-B	18	90	0-130 VAC	B	2 ea. 9MF
2180J-H	18	90	0-130 VAC	H	2 ea. 9MF
2180J-BT	18	90/45	0-130/0-260 VAC	B	2 ea. 9MF
2180J-HT	18	90/45	0-130/0-260 VAC	H	2 ea. 9MF
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2240J-B	24	120	0-130 VAC	B	4 ea. 6MF
2240J-H	24	120	0-130 VAC	H	4 ea. 6MF
2240J-BT	24	120/60	0-130/0-260 VAC	B	4 ea. 6MF
2240J-HT	24	120/60	0-130/0-260 VAC	H	4 ea. 6MF
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2360J-B	36	180	0-130 VAC	B	4 ea. 9MF
2360J-H	36	180	0-130 VAC	H	4 ea. 9MF
2360J-BT	36	180/90	0-130/0-260 VAC	B	4 ea. 9MF
2360J-HT	36	180/90	0-130/0-260 VAC	H	4 ea. 9MF
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2540J-B	54	270	0-130 VAC	B	6 ea. 9MF
2540J-H	54	270	0-130 VAC	H	6 ea. 9MF
2540J-BT	54	270/135	0-130/0-260 VAC	B	6 ea. 9MF
2540J-HT	54	270/135	0-130/0-260 VAC	H	6 ea. 9MF

Model	Total Output Power KVA	Current Per Leg (Amps)	Output Voltage Range	Control Characteristics	Frame Size
330J-B	4	10	0-130 VAC	B	3MF
330J-H	4	10	0-130 VAC	H	3MF
330J-BT	4	10/5	0-130/0-260 VAC	B	3MF
330J-HT	4	10/5	0-130/0-260 VAC	H	3MF
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360J-B	8	20	0-130 VAC	B	6MF
360J-H	8	20	0-130 VAC	H	6MF
360J-BT	8	20/10	0-130/0-260 VAC	B	6MF
360J-HT	8	20/10	0-130/0-260 VAC	H	6MF
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390J-B	12	30	0-130 VAC	B	9MF
390J-H	12	30	0-130 VAC	H	9MF
390J-BT	12	30/15	0-130/0-260 VAC	B	9MF
390J-HT	12	30/15	0-130/0-260 VAC	H	9MF
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3120J-B	15	40	0-130 VAC	B	2 ea. 6MF
3120J-H	15	40	0-130 VAC	H	2 ea. 6MF
3120J-BT	15	40/20	0-130/0-260 VAC	B	2 ea. 6MF
3120J-HT	15	40/20	0-130/0-260 VAC	H	2 ea. 6MF
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3180J-B	24	60	0-130 VAC	B	3 ea. 6MF
3180J-H	24	60	0-130 VAC	H	3 ea. 6MF
3180J-BT	24	60/30	0-130/0-260 VAC	B	3 ea. 6MF
3180J-HT	24	60/30	0-130/0-260 VAC	H	3 ea. 6MF
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3270J-B	35	90	0-130 VAC	B	3 ea. 9MF
3270J-H	35	90	0-130 VAC	H	3 ea. 9MF
3270J-BT	35	90/45	0-130/0-260 VAC	B	3 ea. 9MF
3270J-HT	35	90/45	0-130/0-260 VAC	H	3 ea. 9MF
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3360J-B	45	120	0-130 VAC	B	4 ea. 9MF
3360J-H	45	120	0-130 VAC	H	4 ea. 9MF
3360J-BT	45	120/60	0-130/0-260 VAC	B	4 ea. 9MF
3360J-HT	45	120/60	0-130/0-260 VAC	H	4 ea. 9MF
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3450J-B	60	150	0-130 VAC	B	5 ea. 9MF
3450J-H	60	150	0-130 VAC	H	5 ea. 9MF
3450J-BT	60	150/75	0-130/0-260 VAC	B	5 ea. 9MF
3450J-HT	60	150/75	0-130/0-260 VAC	H	5 ea. 9MF
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3540J-B	70	180	0-130 VAC	B	6 ea. 9MF
3540J-H	70	180	0-130 VAC	H	6 ea. 9MF
3540J-BT	70	180/90	0-130/0-260 VAC	B	6 ea. 9MF
3540J-HT	70	180/90	0-130/0-260 VAC	H	6 ea. 9MF



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