

Static Regulators: Model 11B-6



11B-6 series



Isolation Transformer

These Static Regulators are designed to provide regulated and adjustable DC power for the fields of synchronous motors, DC generators or alternators.

These are general purpose, low maintenance, solid state power supplies designed to best industry standards and practices with an excellent service history.

Operating Parameters:

Line Voltage :	575V / 3PH / 60Hz or 460V / 3PH / 60Hz
Optional :	2300 or 4160V
Line Voltage Variation :	+10% -10%
Line Frequency Variation :	±2Hz
Ambient Temperature :	0°C to 40°C (32°F to 104°F)
Altitude without Derating :	1000 meters (3300 feet)

General Ratings:

DC Output Voltage Adjustable from :	0-125V or 0-250V
DC Output Current (Amps) :	up to 2000 Amps
Service Factor :	1.0
Overload Capacity :	150% for 10 seconds

Performance Characteristics:

DC Voltage or Current Regulation	1%
Efficiency	97%

Design Features: Equipment Includes

NEMA/EEMAC 1 wall mounting enclosure including:

- Three phase fully-controlled thyristor bridge NEMA Code C with a free wheeling diode.
- Protection provided by HRC semiconductor fuses
- Thermistors included on fan cooled models to provide over temperature protection and automatic shutdown.
- M.O.V. transient voltage suppressors included for protection against normal line transients with special consideration for protection against load transients
- Solid state printed circuit boards that incorporate amplifier regulated power supply for thyristor firing control and voltage or (current) feedback sensing to maintain regulated output
Adjustments include:
 - maximum output
 - current limit
 - stability response
- All circuit points are easily accessible for checking operation and troubleshooting.

120V control circuit transformer and control relay is included to supply power to operator devices such as: pilot lights, on/off pushbuttons.

Voltage (current) setting potentiometer - door mounted (can be installed inside upon request)

Optional Equipment:

Three phase isolation transformer (supplied for separate mounting):

- Standard ANN dry-type trans formers, 3 phase 3 coil design (delta-wye), 60Hz rated various KVA with CEMA/NEMA 1 enclosure
- class 220-150°C rise with 220°C insulation system
- primary voltage (600/480/240) volts supplied with two 5% taps (6-10 KVA) or four 2. 5% taps (15-1000KVA) secondary volts (240 or 120) volts

Typical Modifications Available

- AC line fused disconnect or circuit breaker
- DC output contactor or circuit breaker
- AC power-on lamp
- NEMA/EEMAC 12 enclosure, wall mounting
- Floor mounting or free standing cabinets
- Integrated control-package with main transformer inside same cabinet as regulator
- Instrumentation - ammeter, voltmeter, hourmeter
- Digital interface for voltage or current setting

11B-6 Model Selection Table

Output current ratings (Amps)	AC Supply					
	240V / 3Ph / 60Hz		460V / 3Ph / 60Hz		575V / 3Ph / 60Hz	
	125V DC	250V DC	125V DC	250V DC	125V DC	250V DC
30	11B-62031	11B-62032	11B-64031	11B-64032	11B-65031	11B-65032
40	11B-62051	11B-62052	11B-64051	11B-64052	11B-65051	11B-65052
80	11B-62101	11B-62102	11B-64101	11B-64102	11B-65101	11B-65102
100	11B-62121	11B-62122	11B-64121	11B-64122	11B-65121	11B-65122
120	11B-62151	11B-62152	11B-64151	11B-64152	11B-65151	11B-65152
160	11B-62201	11B-62202	11B-64201	11B-64202	11B-65201	11B-65202
200	11B-62251	11B-62252	11B-64251	11B-64252	11B-65251	11B-65252
240	11B-62301	11B-62302	11B-64301	11B-64302	11B-65301	11B-65302
300	11B-62381	11B-62382	11B-64381	11B-64382	11B-65381	11B-65382
500	11B-62631	11B-62632	11B-64631	11B-64632	11B-65631	11B-65632
600	11B-62751	11B-62752	11B-64751	11B-64752	11B-65751	11B-65752
700	11B-62881	11B-62882	11B-64881	11B-64882	11B-65881	11B-65882

Isolation Transformer Dimensions and Weights

- For Separate Mounting with 11B-6 Static Regulators
- Note that Sizes are for estimation only and subject to change without notice.

11B-6 Nominal Output Current	Approximate transformer size by Static Regulator Output – Maximum Voltage*													
	125 VDC						250 VDC						Weight	
	Width		Height		Depth		Width		Height		Depth			
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	Lbs	Kg	
30	15	381	22	559	8	203	17	432	23	584	10	254	180	82
40	15	381	22	559	8	203	17	432	23	584	10	254	180	82
80	17	432	23	584	10	254	15	381	28	711	13	330	265	120
100	17	432	23	584	10	254	24	610	22	559	22	559	265	120
120	15	381	28	711	13	330	24	610	27	686	22	559	435	198
160	24	610	22	559	22	559	27	686	28	711	23	584	320	145
200	24	610	27	686	22	559	27	686	28	711	23	584	340	155
240	27	686	28	711	23	584	31	878	33	838	28	711	395	180
300	27	686	28	711	23	584	35	889	36	914	30	762	400	182
500	31	787	33	838	28	711	35	889	36	914	30	762	570	259
600	35	889	36	914	30	762							685	311
700	35	889	36	914	30	762							765	348

* Irrespective of supply voltage

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