DelStar®
HD Brushless

Series 171

SIDE BY SIDE COMPARISON

INNOVATIVE FEATURES

- **HIGH EFFICIENCY:**
  High efficiency means cooler internal alternators operating temperatures resulting in less engine horsepower required and maximizing fuel savings. Our unique air flow design offers a more efficient air flow through the windings which directly translates in maximum output and efficiencies.

- **TEMPERATURE RATING:**
  All our alternators are validated to work and operate in today's ambient air temperatures of up to125ºC / 257ºF

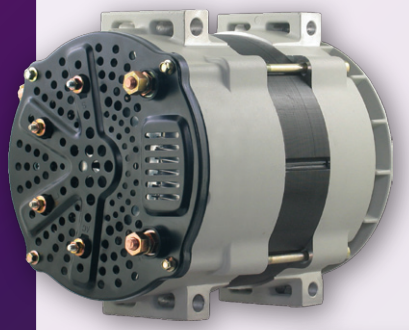
- **DEBRIS FREE & COOLER OPERATION:**
  For high debris or high temperature environments, all DelStar series alternators are available with an optional Air Intake Cover by adding the letter "D" after the part No. The Ducted air allows filtered or fresh air flow to the unit which will improve output, efficiency and extends the alternator service life.

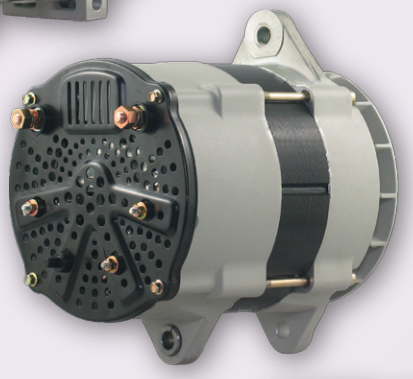
- **SOFT START DELAY (SSD) & LOAD RESPONSE CONTROL (LRC):**
  Again "SETTING the STANDARD" with a newly introduced SMART REGULATOR where at engine start up, the regulator monitors the (low) engine RPM, it controls and gradually introduces alternator output to eliminate engine torque decrement due to a sudden and abrupt load transition at low RPM.

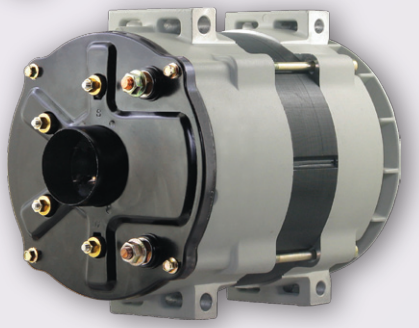
- **OVERVOLTAGE SHUT-DOWN (OSD):**
  Designed to protect onboard electronics that are very sensitive to high voltage conditions, by shutting down the alternator output and restoring output only when the voltage is stabilized to or below the regulator voltage set point.

WARRANTY:
3 Years Limited Warranty

12V-345A 209A at engine idle
12V-285A 198A at engine idle
12V-250A 176A at engine idle







With air intake cover

APPLICATIONS:
- Fire Trucks
- Long Haul Trucks
- School & Shuttle Buses
- Utility & Work Vehicles

171-SBS-COM 150731

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DelStar 345A Series 171

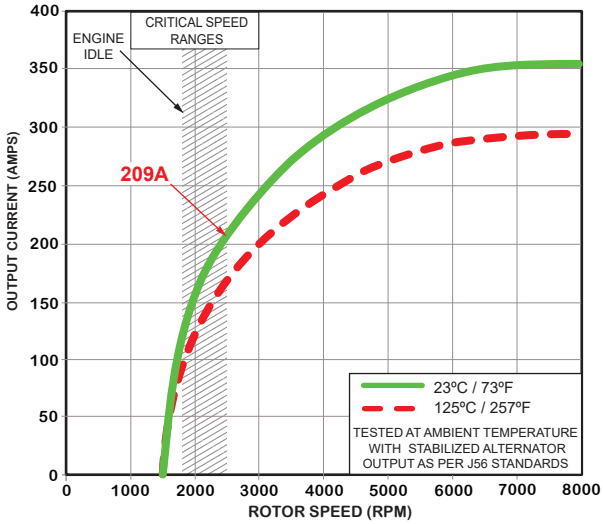
COMPARED TO: Delco Remy & Leece-Neville

SPECIFICATIONS	DelStar 345A 171 Series	Delco Remy 320A 40SI	Delco Remy 300A 40SI	Leece-Neville 320A 4000 Series
Part Number	100-17108 100-17117	8600628 8600634	8600298 8600300	4890JB, H 4962PA, PGH
Brushless Design	YES	YES	YES	NO
Mounting types available	J180 & PAD	J180 & PAD	J180 & PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23ºC / 73ºF	345A	320A	300A	320A
2000RPM @ 23ºC / 73ºF	157A	150A	125A	160A
6000RPM @ 125ºC / 257ºF	287A	N/R*	N/R*	265A
2000RPM @ 125ºC / 257ºF	121A	N/R*	N/R*	130A
Efficiency	72%	72%	70%	61%
Temperature Rating	-40º to 125ºC/257ºF	-40º to 115ºC/239ºF	-40º to 115ºC/239ºF	-40º to 115ºC/239ºF
Continuous RPM	8000	8000	8000	8000
Rotation	Bidirectional	CW	CW	CW
Optional Air intake cover	YES	NO	NO	NO
Weight: lbs/Kg	38 / 17.4	31 / 14.1	31 / 14.1	32 / 14.5
Overall Length: mm / inch	275 / 10.83	274 / 10.79	274 / 10.79	280 / 11.02
Number of Diodes	20	12	12	12
Ground	Negative	Negative	Negative	Negative
E-Coating Corrosion Resistant	YES	NO	NO	NO
Voltage Regulator: Internal	YES	YES	YES	YES
Self-Exite	YES	YES	YES	YES
Indicator Light	YES	YES	YES	YES
Remote Sense Regulation	YES	YES	YES	YES
Soft Start Delay - SSD	YES	NO	NO	NO
Load Response Control - LRC	YES	NO	NO	NO
Adjustable Voltage Option	YES	NO	NO	NO
Overvoltage Shut-Down - OSD	YES	NO	NO	NO

* Not Rated for 125ºC/257ºF

12V-345A

PERFORMANCE CURVES



EFFICIENCY / TORQUE

14Volt - 23ºC / 73ºF Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	112	72	11.4
2000	157	71	14.6
3000	277	67	18.2
4000	318	64	16.4
5000	340	62	14.4
6000	345	60	12.6

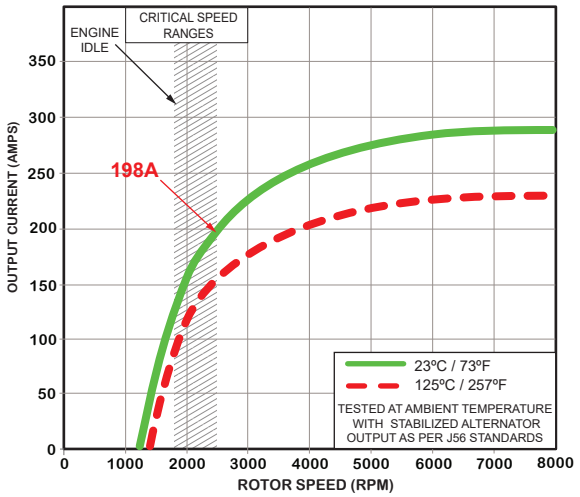
DelStar® 285A — Series 171

COMPARED TO: Delco Remy & Leece-Neville

SPECIFICATIONS	DelStar 285A 171 Series	Delco Remy 275A 40SI	Leece-Neville 270A 4000 Series	Leece-Neville 270A 4000 Series
Part Number	100-17109 100-17119	8600094 8600280	4870JB 4949PGH	4867JB 4967PGH
Brushless Design	YES	YES	NO	NO
Mounting types available	J180 & PAD	J180 & PAD	J180 & PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23ºC / 73ºF	285A	275A	270A	270A
2000RPM @ 23ºC / 73ºF	152A	100A	150A	150A
6000RPM @ 93ºC / 200ºF	236A	N/A	213A	213A
2000RPM @ 93ºC / 200ºF	128A	N/A	120A	120A
6000RPM @ 125ºC / 257ºF	225A	N/A	N/A	N/A
2000RPM @ 125ºC / 257ºF	119A	N/A	N/A	N/A
Efficiency	71%	N/A	61%	61%
Temperature Rating	-40º to 125ºC/257ºF	-40º to 125ºC/257ºF	-40º to 125ºC/257ºF	-40º to 125ºC/257ºF
Continuous RPM	8000	8000	8000	8000
Rotation	Bidirectional	CW	CW	CW
Optional Air intake cover	YES	NO	NO	NO
Weight: lbs/Kg	38 / 17.4	31 / 14.1	32 / 14.5	32 / 14.5
Overall Length: mm / inch	275 / 10.83	284 / 11.18	280 / 11.02	280 / 11.02
Number of Diodes	18	12	12	12
Ground	Negative	Negative	Negative	Negative
E-Coating Corrosion Resistant	YES	NO	NO	NO
Voltage Regulator: Internal	YES	YES	YES	YES
Self-Exite	YES	YES	YES	YES
Indicator Light	YES	YES	YES	YES
Remote Sense Regulation	YES	YES	YES	YES
Soft Start Delay - SSD	YES	NO	NO	NO
Load Response Control - LRC	YES	NO	NO	NO
Adjustable Voltage Option	YES	NO	NO	NO
Overvoltage Shut-Down - OSD	YES	NO	NO	NO

12V-285A

PERFORMANCE CURVES



EFFICIENCY / TORQUE

14Volt - 23ºC / 73ºF Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	132	71	13.8
2000	152	70	14.6
3000	230	66	15.5
4000	262	64	13.7
5000	275	62	11.9
6000	285	60	10.6

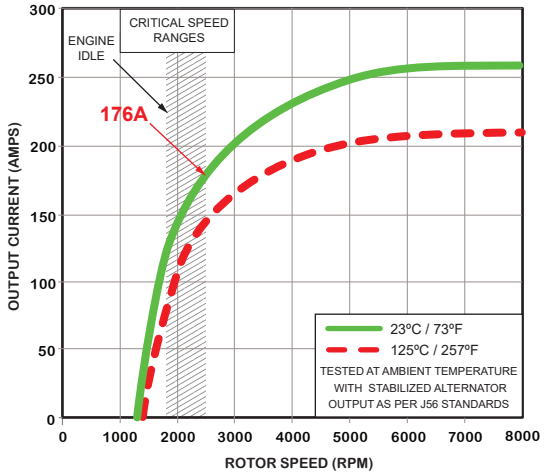
DelStar® 250A — Series 171

COMPARED TO: Delco Remy & Leece-Neville

SPECIFICATIONS	DelStar 250A 171 Series	Leece-Neville 240A BLP	Delco Remy 240A 40SI	Leece-Neville 245A 4000 Series
Part Number	100-17107 100-17113	BLP4007H	8600338 8600390	4869JB 4911PA
Brushless Design	YES	YES	YES	NO
Mounting type	J180 & PAD	PAD	J180 & PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23ºC / 73ºF	259A	256A	240A	245A
2000RPM @ 23ºC / 73ºF	145A	124A	100A	140A
6000RPM @ 110ºC / 230ºF	216A	N/A	N/A	190A
2000RPM @ 110ºC / 230ºF	115A	N/A	N/A	105A
6000RPM @ 125ºC / 257ºF	208A	195A	N/A	N/A
2000RPM @ 125ºC / 257ºF	109A	74A	N/A	N/A
Efficiency	70%	N/A	N/A	N/A
Temperature Rating	-40º to 125ºC/257ºF	-40º to 125ºC/257ºF	-40º to 125ºC/257ºF	-40º to 125ºC/257ºF
Continuous RPM	8000	8000	8000	8000
Rotation	Bidirectional	CW	CW	CW
Optional Air intake cover	YES	NO	NO	NO
Weight : lbs/Kg	38 / 17.4	37 / 16.8	31 / 14.1	32 / 14.5
Overall Length: mm / inch	275 / 10.83	278 / 10.94	274 / 10.79	280 / 11.02
Number of Diodes	12	12	12	12
Ground	Negative	Insulated	Negative	Negative
E-Coating Corrosion Resistant	YES	YES	NO	NO
Voltage Regulator : Internal	YES	YES	YES	YES
Self-Exite	YES	YES	YES	YES
Indicator Light	YES	YES	YES	YES
Remote Sense Regulation	YES	YES	YES	NO
Soft Start Delay - SSD	YES	NO	NO	NO
Load Response Control - LRC	YES	NO	NO	NO
Adjustable Voltage Option	YES	NO	NO	NO
Overvoltage Shut-Down - OSD	YES	NO	NO	NO

12V-250A

PERFORMANCE CURVES



EFFICIENCY / TORQUE

14Volt - 23ºC / 73ºF Stabilized output per SAE J56 standard

rpm	Amps	Effic.	Nm
1250	1	0	1
1800	125	70	13.1
2000	145	70	13.8
3000	205	66	13.8
4000	236	64	12.3
5000	249	62	10.7
6000	259	60	9.7