

## SIDE BY SIDE COMPARISON

**12V-350A** 260A at engine idle  
**12V-300A** 170A at engine idle



With air intake cover



With air intake cover

### APPLICATIONS:

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



### 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 to 125°C / 257°F

#### • 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

# DelStar® 350A Series 170

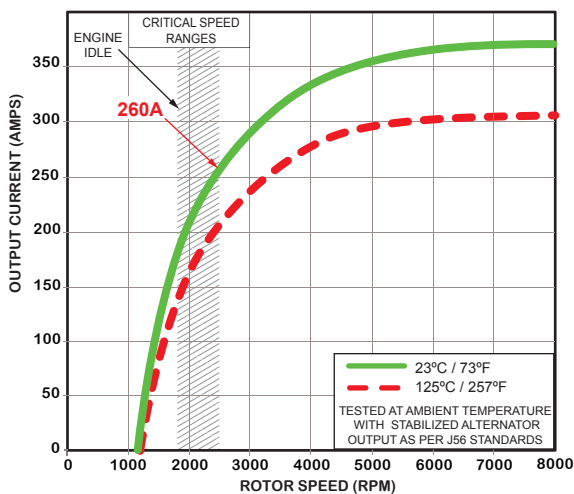
COMPARED TO: Leece-Neville & Delco Remy

SPECIFICATIONS	350A 170 Series	Leece-Neville 350A BLP Series	Leece-Neville 325A BLP Series	Delco Remy 320A 40SI
Part Number	100-17102 100-17112	BLP4004H	BLP4002H	8600628 8600634
Brushless Design	YES	YES	YES	YES
Mounting types available	J180 & PAD	PAD	PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23°C / 73°F	364A	357A	332A	320A
2000RPM @ 23°C / 73°F	210A	207A	183A	153A
6000RPM @ 125°C / 257°F	302A	296A	269A	N/R*
2000RPM @ 125°C / 257°F	166A	162A	138A	N/R*
Efficiency	73%	72%	72%	72%
Temperature Rating	-40° to 125°C/257°F	-40° to 125°C / 257°F	-40° to 125°C / 257°F	-40° to 115°C / 239°F
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	37/16.8	31/14.1
Overall Length: mm / in	275/10.83	284/11.18	278/10.94	274/10.79
Number of Diodes	20	12	12	12
Ground	Ins. or Neg.	Insulated	Insulated	Negative
E-Coating Corrosion Resistant	YES	YES	YES	NO
Voltage Regulator: Internal	YES	YES	YES	YES
Self-Exite	YES	YES	YES	YES
Ind. 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 125°C / 257°F

## 12V-350A

### PERFORMANCE CURVES



### EFFICIENCY / TORQUE

14Volt - 23°C / 73°F Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	180	73	18.3
2000	211	72	19.6
3000	287	68	18.8
4000	325	65	16.7
5000	343	63	14.6
6000	364	61	13.3

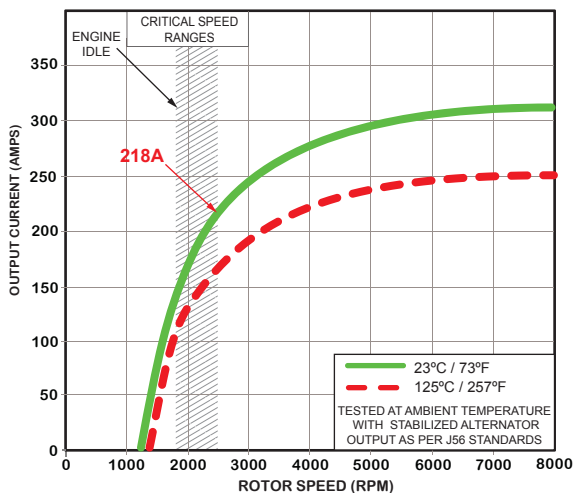
# DelStar® 300A Series 170

COMPARED TO: Delco Remy & Leece-Neville

SPECIFICATIONS	300A 170 Series	Delco Remy 300A 40SI	Delco Remy 275A 40SI	Leece-Neville 270A 4000 Series
Part Number	100-17106 100-17115	8600298 8600300	8600094 8600280	4867JB 4967PGH
Brushless Design	YES	YES	YES	NO
Mounting types available	J180 & PAD	J180 & PAD	J180 & PAD	J180 & PAD
Output Stabilized:				
6000RPM @ 23°C / 73°F	309A	300A	275A	270A
2000RPM @ 23°C / 73°F	170A	125A	121A	150A
6000RPM @ 125°C / 257°F	247A	N/R*	N/A	N/A
2000RPM @ 125°C / 257°F	131A	N/R*	N/A	N/A
Efficiency	72%	70%	N/A	61%
Temperature Rating	-40° to 125°C / 257°F	-40° to 115°C / 239°F	-40° to 125°C / 257°F	-40° to 125°C / 257°F
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 / in	275 / 10.83	274 / 10.79	284 / 11.18	280 / 11.02
Number of Diodes	20	12	12	12
Ground	Insulated	Negative	Insulated	Negative
E-Coating Corrosion Resistant	YES	NO	NO	NO
Voltage Regulator: Internal	YES	YES	YES	YES
Self-Exite	YES	YES	YES	YES
Ind. 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-300A

### PERFORMANCE CURVES






### EFFICIENCY / TORQUE

14Volt - 23°C / 73°F Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	142	73	14.4
2000	170	72	15.8
3000	247	68	16.2
4000	275	65	14.1
5000	290	63	12.3
6000	309	61	11.3

## COMPETITIVE INTERCHANGE

DELSTAR Brushless				Delco Remy Brushless		Leece-Neville Brush Design		C.E. Niehoff Brushless	
Mounting	Part No.	Series	Amps Output @ 2000 / 6000 rpm	40SI Series Part No.	Amps Output @ 2000 / 6000 rpm	4000 Series Sales No.	Amps Output @ 2000 / 6000 rpm	C Series Part No.	Amps Output @ 2000 / 6000 rpm
 PAD	100-17113	171	12V 145 / 250A	8600338	100 / 240A	4940PA 4948PA 4951PAH 4958PA 4959PA 4911PA 4913PA BLP4007H*	125 / 200A 140 / 220A 140 / 245A 124 / 240A		
	100-17119	171	12V 152 / 285A	8600094	100 / 275A	4949PGH 4967PGH 4942PA 4947PA	150 / 270A		
 J180 4" Hinge	100-17115	170	12V 170 / 300A	8600298	125 / 300A			C524	180 / 300A
	100-17117	171	12V 157 / 345A	8600628	150 / 320A	4962PA, H 4962PGH	150 / 320A		
	100-17112	170	12V 210 / 350A	8600628	150 / 320A	BLP4002H* BLP4004A*	183 / 325A 212 / 350A		
	100-17212	170	24V 114 / 200A			4964PA 4980PAH 4989PAH 4989PGH	100 / 200A 100 / 190A	C528	24V 100 / 175A
 J180 4" Hinge	100-17107	171	12V 145 / 250A	8600390	100 / 240A	4860JB 4861JB 4863JB 4868JGH 4884JB 4885JB 4887JB 4869JB 4873JB	125 / 200A 140 / 220A 140 / 245A		
	100-17109	171	12V 152 / 285A	8600280	100 / 275A	4867JB 4870JB 4871JB	150 / 270A		
	100-17106	170	12V 170 / 300A	8600280 8600300	100 / 275A 125 / 300A	4818JB 4867JB 4870JB 4871JB	150 / 270A	C330	160 / 250A
	100-17108	171	12V 157 / 345A	8600634	150 / 320A	4890JB, H 4817JB	150 / 320A		
	100-17102	170	12V 210 / 350A	8600634	150 / 320A	4890JB, H 4817JB	150 / 320A		
	100-17202	170	24V 114 / 200A			4740JB	100 / 200A		

\* Brushless Design

170-SBS-COM 150615

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