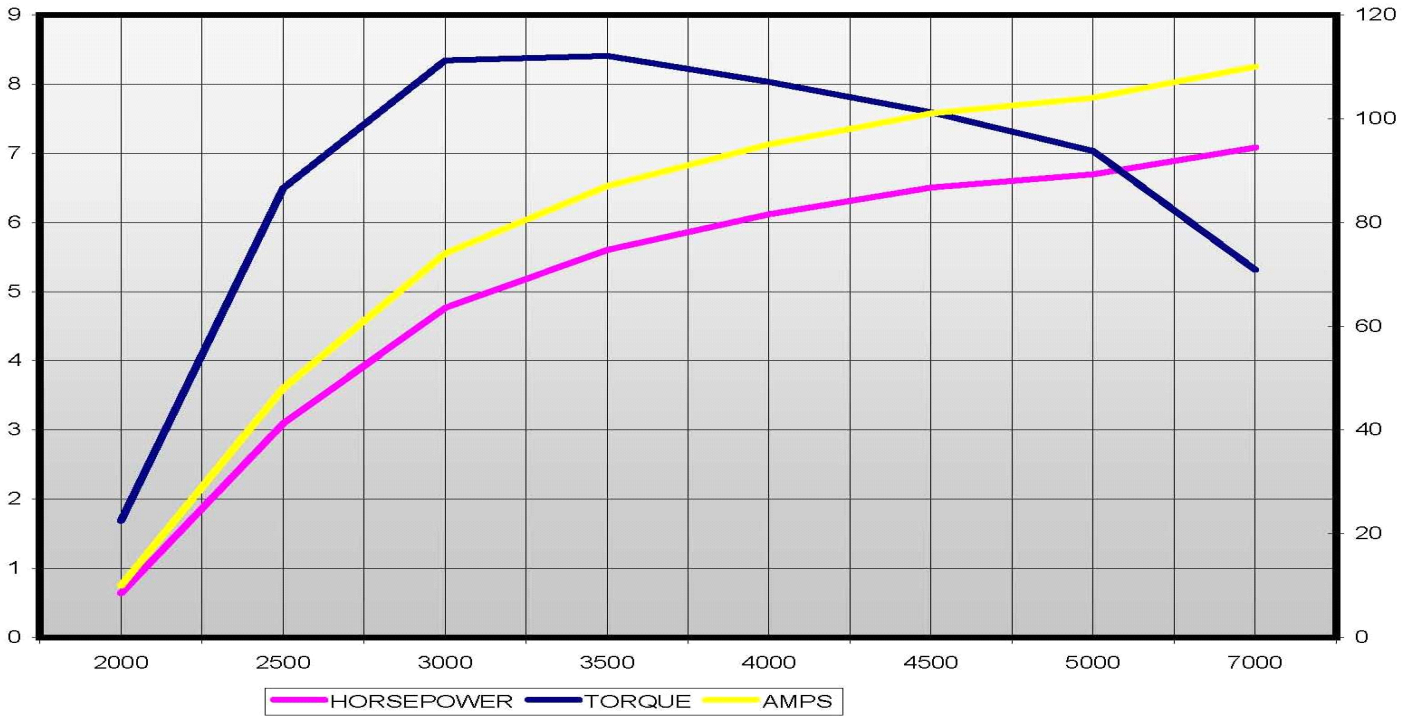


APS Alternator Specifications - Part # 44i-110ACT-56



The APS 44i series alternator delivers 6.0 kW of clean, regulated DC power. This alternator is designed to meet military standards and multiple units can be paralleled for additional power.

ELECTRICAL SPECIFICATIONS:

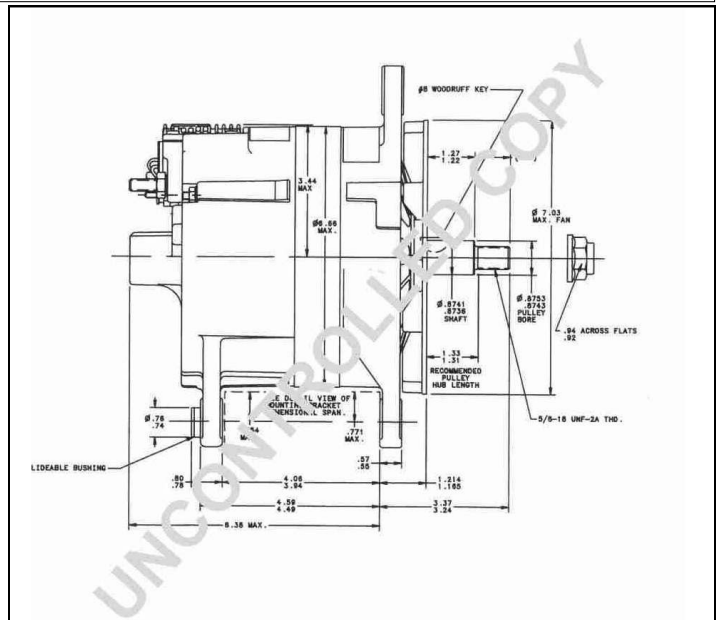
Rated Power:	6.0 kW
Rated Voltage:	56 VDC nominal
Rotation:	CW
Output Current:	110 amps nominal
Output at engine idle:	customer dependent
Charge voltage set point:	56 VDC
Turn on speed:	1800 shaft speed
Regulator	External 56.5 V
Efficiency:	70% typical

MECHANICAL SPECIFICATIONS:

Diameter:	7.5"
Mount:	J Mount
Weight:	27 lbs.
Cooling:	External Fan

SPECIAL FEATURES:

- Custom windings
- High Performance heat sink
- Internal Regulator interface
- Designed to meet MIL standards



Typical Application—Alternative Energy
APU Power

ALTERNATOR SPECIFICATIONS

APS Model Number 44i-110ACT-56V

Design Specifications :

Stator Windings	Machine wound solid copper loop
Stator Stack	Siliconized Steel lamination
Rotor	Cast Steel
Rotor Windings	Special copper coil wound
Regulator	Special HD design External for 56 V operation APS PN:APS-56RGXTF (Sold Separately)
Bearings	NSK
Rectifier	High Efficiency Enhanced
Housings	Cast Aluminum. Unit case shall be made of cast aluminum and shall not be chrome plated or powder-coated
Slip ring design	High Efficiency Brushes
Rectifier Section	Composed of ultra-high efficiency high-amp diodes and a high temperature heat sink plate. Rectifier section provides a means of maintaining contact between the rectifier plate and individual diodes under high heat loads.
Total weight	26.5 lbs
Diameter	7" / 178 mm
Length	9.67"/ 246 mm including shaft
Charge Voltage Setpoint	56.5
Rotation	CW
Efficiency	70%
Rated Power	6.0 kW

Performance Specifications:

Output Curve per attached.	
Operating Temperature	-40° - +110° C
Storage Temperature	-40° - +120° C
Maximum output current	110 amps @ 56.5 VDC
Output at 3000 RPM shaft speed	70 amps @ 56.5 VDC
Maximum output current shaft speed	7000 rpm (110 A)
Turn on shaft speed	1800 rpm (10A)
Maximum shaft speed	10,000 rpm
Cooling	External fan

Installation Specifications:

Mount type	J-180
Mounting bolt hole	½" by 13 thread
Output Post diameter	5/16" x 18 thread
Negative Post diameter	5/16" x 18 thread
Regulator interface	External – APS PN: APS-56RGXTF

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APS44I-J