



REFERENCE ISOMETRIC VIEW  
HALF SCALE

PERFORMANCE REQUIREMENTS:

1. OPERATING AMBIENT TEMPERATURE: -65 °F TO 165 °F
2. ROTATION: REVERSIBLE
3. 2600-8000 RPM, 28 VOLTS
4. 5040 WATTS, 180 AMPS NOMINAL
5. WEIGHT: 47 LBS
6. OUTPUT FREQUENCY (Hz) =ALTERNATOR SPEED / 10

SPLINE DATA:

EXTERNAL INVOLUTE SPLINE, CLASS 5 ANSI B92.1 - 1970  
 SPLINE MINOR DIA: 0.687 IN NOMINAL  
 SPLINE MAJOR DIA: 0.863 IN MIN AND 0.867 IN MAX  
 SPLINE WIDTH: 0.758 IN NOMINAL  
 SPLINE LENGTH: 1.130 IN MIN AND 1.25 IN MAX  
 FILLET ROOT, SIDE FIT  
 NUMBER OF TEETH: 16  
 SPLINE PITCH: 20/30  
 PRESSURE ANGLE: 30°

REFER TO ARMY TECHNICAL MANUAL:  
 TM 9-2920-258-30&P FOR MAINTENANCE  
 OF ASSEMBLY AND REPAIR PARTS

**DP0190-001 GENERATOR**  
 GENERAL SALES DRAWING  
 REPLACEMENT PART FOR PART NO. 12268305  
 (U.S. ARMY 180 AMP ALTERNATOR)  
 FULL SCALE



CAGE CODE: 6QPA4  
 ADDRESS: 10553 CROMWELL DR.  
 DALLAS, TX 75229  
 WEB: WWW.DYAD.CO  
 PHONE: (901) 634-0866

UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN  
 INCHES AND DEGREES,  
 TOLERANCE ON:

.X	± .1	X°	± 2°
.XX	± .03	X.X°	± 1°
.XXX	± .010	X.XX°	± .5°

INTERPRET DRAWING,  
 DIMENSIONS, AND TOLERANCES  
 PER  
 ASME Y14.5M-1994

PROJECTION

DESIGN:	L. FRITZ	4/11/2014
CHECK:	R. ONJUKKA	4/11/2014

APPROVE:	RC KNIGHT	4/11/2014
----------	-----------	-----------

TITLE  
**DYAD POWER GENERATOR**  
**180 AMP, 28V DC**  
**SALES DRAWING**

DWG NO:	DPG0190-001	REV	
---------	-------------	-----	--

DO NOT SCALE DWG SHEET 1 OF 1

THE INFORMATION, TECHNICAL DATA, AND DESIGNS, DISCLOSED HEREIN ARE THE EXCLUSIVE PROPERTY OF DYAD MOTOR WORKS, OR CONTAIN PROPRIETARY RIGHTS OF OTHERS AND SHALL NOT BE USED OR DISCLOSED TO OTHERS WITHOUT THE WRITTEN CONSENT OF DYAD MOTOR WORKS. THE RECIPIENT OF THIS DOCUMENT, BY ITS RETENTION AND USE, AGREES TO HOLD IN CONFIDENCE THE TECHNICAL DATA AND DESIGNS CONTAINED HEREIN. THE FOREGOING SHALL NOT APPLY TO PERSONS HAVING PROPRIETARY RIGHTS TO SUCH INFORMATION, TECHNICAL DATA, OR DESIGNS, TO THE EXTENT THAT SUCH RIGHTS EXIST.