

500 PGP-ST Series General-Purpose Power Aluminum Capacitors with Screw Terminals



KEY BENEFITS

- High efficiency
- 2000 h at + 85 °C
- Case sizes up to 90 x 220 mm
- Up to 15000 µF in 400 V, 420 V, and 450 V

APPLICATIONS

- Energy storage in medical or industrial pulse systems
- Uninterruptible power supplies (UPS)
- Welding devices
- Motor drives

RESOURCES

- Datasheet: 500 PGP-ST Series - <http://www.vishay.com/doc?28390>
- For technical questions contact aluminumcaps2@vishay.com
- Material categorization: For definitions of compliance please see <http://www.vishay.com/doc?99912>

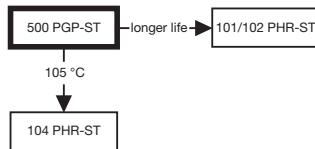


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COMPLIANT

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



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MARKING

The capacitors are marked with the following information:

- Rated capacitance (in μF)
- Tolerance on rated capacitance, code letter in accordance with IEC 60062 (M for $\pm 20\%$)
- Rated voltage (in V)
- Date code
- Name of manufacturer
- Code for factory of origin
- Code number

QUICK REFERENCE DATA

DESCRIPTION	VALUE
	500
Nominal case size ($\varnothing D \times L$ in mm)	50 x 80 to 90 x 220
Rated capacitance range, C_R	1000 μF to 15 000 μF
Tolerance on C_R	$\pm 20\%$
Rated voltage range, U_R	400 V to 450 V
Category temperature range	- 40 °C to + 85 °C
Endurance test at 85 °C	2000 h
Useful life at 85 °C	2000 h
Shelf life at 0 V, 85 °C	500 h
Based on sectional specification	IEC 60384-4/EN 130300
Climatic category IEC 60068	40/085/56

SELECTION CHART FOR C_R , U_R AND RELEVANT NOMINAL CASE SIZES ($\varnothing D \times L$ in mm)

C_R (μF)	U_R (V)		
	400	420	450
1000	50 x 80	50 x 80	50 x 80
1200	50 x 80	50 x 80	50 x 80
1500	50 x 105	50 x 105	50 x 105
1800	50 x 105	50 x 105	50 x 105
2200	50 x 105 65 x 105	65 x 105	65 x 105
2700	65 x 105	65 x 105	65 x 105
3300	65 x 105	65 x 105	76 x 105
3900	65 x 105	76 x 105	76 x 105
4700	76 x 105	76 x 114	76 x 114
5600	76 x 114	-	76 x 146
6800	76 x 146	76 x 146	90 x 146
8200	90 x 146	90 x 146	76 x 220
10 000	76 x 220 90 x 146	76 x 220	76 x 220
12 000	76 x 220	-	90 x 220
15 000	90 x 220	90 x 220	-

Revision 29-Jul-11

DIMENSIONS in millimeters AND AVAILABLE FORMS

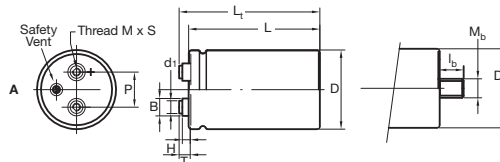


Fig. 2 A: Standard M5 disc: Screw terminal (ST) and screw terminal bolt nut (STB)

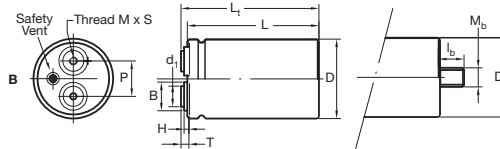


Fig. 2 B: High current M6 disc: Screw terminal (ST) and screw terminal bolt nut (STB)

Note

- Maximum permissible torque which may be applied to the termination screws: 2 Nm for M5; 2.5 Nm for M6. For accessories refer to datasheet "Mounting Accessories". The capacitors are delivered with screws and washers.

Note

Please see datasheet table 1 for actual dimensions.