



ELECTRONIC TUBE REFERENCE

DCG66000

Specialized - Thyatron electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

THYRATRON

Mercury-vapor grid-controlled thyatron for industrial controlled rectification and power-control switching.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 6.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Thyatron	
PEAK INVERSE VOLTAGE	13000 V
PEAK FORWARD CURRENT	40 A
FORWARD VOLTAGE DROP	12 V
WARM-UP TIME	60 s
Grid-controlled mercury-vapour rectifying tube for industrial controlled-rectifier service.	

DCG66000 is a Thyatron device in the supplied Philips industrial literature. Grid-controlled mercury-vapour rectifying tube for industrial controlled-rectifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Thyatron

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-anode capacitance	5 pF	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Arc voltage drop at 1A	12 V	—
Ionization time	10 us	—
Deionization time	250 us	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse anode voltage	13 kV	—
Peak forward anode voltage	13 kV	—
Average anode current	1 A	—
Peak anode current	4 A	—
Surge current	40 A	—
Maximum negative grid voltage	300 V	—
Average grid current	10 mA	—
Peak grid current	50 mA	—



1999 Philips 0-D

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS 0-D
Section 1 · Thyatron

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Mercury vapour	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode arc voltage at 1 A	12 V	—
Ionization time	10 us	—
Deionization time	250 us	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse anode voltage	13 kV	—
Maximum peak forward anode voltage	13 kV	—
Maximum surge current	40 A	Duration<=0.1s
Maximum grid voltage	300 V	—
Maximum grid current	10 mA	—
Maximum peak grid current	50 mA	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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