



Product Service

# CERTIFICATE

No. B 105620 0043 Rev. 00

**Holder of Certificate:** Zhejiang Tengen Electric Co., Ltd.  
Sulv Industrial Area, Liushi Town  
325604 Yueqing City  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:** Switch-disconnector

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 874102502908-00

**Valid until:** 2030-07-15

**Date,** 2025-07-16

( Hongbo Zhu )

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**Model(s):** TGW5FGDC-1600HU, TGW5FGDC-2500HU

## Parameters:

Rated impulse withstand voltage $U_{imp}$ :	12kV
Rated insulation voltage $U_i$ :	1600V
Rated operational voltage $U_e$ :	DC1500V
Rated operational current $I_e$ :	TGW5FGDC-1600HU: 800A, 1000A, 1250A, 1600A; TGW5FGDC-2500HU: 800A, 1000A, 1250A, 1600A, 2000A, 2500A
Conventional free air thermal current $I_{th}$ :	1600A (for $I_n=800A$ to 1600A), 2500A (for $I_n=2000A$ , 2500A)
Utilization category:	DC-22A, DC-23A, DC-PV2
Number of poles:	2P appearance
Rated short-time withstand current $I_{cw}$ :	85kA/1s, 120kA/0.2s
Rated short-circuit making capacity $I_{cm}$ :	85kA
Degree of protection:	IP40 on operation panel, after installation
Suitability for isolation:	Yes
Information of matched auxiliary contacts:	4NO4NC $U_i$ : 690V, $U_{imp}$ : 6kV, $I_{th}$ : 6A; AC-15: AC400V/0.9A, AC230V/1.5A; DC-13: DC220V/0.27A, DC110V/0.55A
Remark:	$U_{imp}=15kV$ is additionally evaluated according to IEC TS 62993:2017 and IEC 60664-1:2020. When installing / inserting with the equipment, all requirements of the mentioned test standard shall be fulfilled.

**Tested according to:** EN IEC 60947-3:2021  
EN IEC 60947-1:2021