

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME				
CB TEST CERTIFICATE				
Product	Photovoltaic (PV) Rapid Shutdown Equipment			
Name and address of the applicant	GoodWe Technologies Co., Ltd. No.90, Zijin Road, New District, Suzhou, Jiangsu, 215011, CHINA			
Name and address of the manufacturer	GoodWe Technologies Co., Ltd. No.90, Zijin Road, New District, Suzhou, Jiangsu, 215011, CHINA			
Name and address of the factory Note: When more than one factory, please report on page 2	Goodwe (Guangde) Power Supply Technology Co., Ltd. No.208,Tong Rui East Road, Guangde, Anhui, 242299, CHINA			
Ratings and principal characteristics	GR-A1F-20: 8 to 80 Vdc, 22 Adc*1 GR-A2F-20: 8 to 80 Vdc, 22 Adc*2 GR-B1F-20: 8 to 80 Vdc, 22 Adc*1 GR-B2F-20: 8 to 80 Vdc, 22 Adc*2			
Trademark / Brand (if any)	GOODWE			
Customer's Testing Facility (CTF) Stage used	CTF Stage 2			
Model / Type Ref.	GR-A1F-20, GR-B1F-20, GR-A2F-20 and GR-B2F-20			
Additional information (if necessary may also be reported on page 2)	Refer to Page 2 of Certificate Additional Information on page 2			
A sample of the product was tested and found to be in conformity with	IEC 62109 1:2010 (First Edition)			
As shown in the Test Report Ref. No. which forms part of this Certificate	CB 300612-80173166			
This CB Test Certificate is issued by the National Certification Body				
CSA Group 178 Rexdale Boulevard Toronto, ON M9W 1R3 Canada				
Date: 2023-09-13 Signature: William Meng				



CA/33262/CSA

Additional Information:

Photovoltaic Rapid Shutdown Equipment (PVRSE), Receiver device model No.: GR-A1F-20, GR-B1F-20, GR-A2F-20 and GR-B2F-20, Used for disconnecting the controlled conductor of a PV System

GR-A1F-20	GR-B1F-20	GR-A2F-20	GR-B2F-20
1100 Vdc	1500 Vdc	1100 Vdc	1500 Vdc
8 to 80 Vdc	8 to 80 Vdc	8 to 80 Vdc	8 to 80 Vdc
1	1	2	2
22 A	22 A	22 A	22 A
23 A	23 A	23 A	23 A
15 s			
-40 to 85 °C, 0% to 100% RH			
IP68			
140x37x23 mm	140x37x23 mm	132x52x23 mm	132x52x23 mm
≤ 3000			
00 00		0	
	1100 Vdc 8 to 80 Vdc 1 22 A 23 A 140x37x23 mm	1100 Vdc 1500 Vdc 8 to 80 Vdc 8 to 80 Vdc 1 1 22 A 22 A 23 A 23 A 1500 Vdc 1500 Vdc 1 1 1 1 1 1 1 1 1 1 23 A 23 A 1500 Vdc 1500 Vdc 1600 Vdc 1500 Vdc 1700 Vdc 1500 Vdc 1400 X37 X23 Mm 1400 X37 X23 Mm 1500 Vdc 1400 X37 X23 Vdc	1100 Vdc 1500 Vdc 1100 Vdc 8 to 80 Vdc 8 to 80 Vdc 8 to 80 Vdc 1 1 2 22 A 22 A 22 A 23 A 23 A 23 A -40 to 85 °C, 0% to 100% RH IP68 140x37x23 mm 140x37x23 mm 132x52x23 mm

Receiver models were tested with the following Transmitter:

Photovoltaic Rapid Shutdown Equipment, Transmitter device Model No.: GT-BF-20 and GT-KF-20. Used for initiating the rapid shutdown function (to turn off the PV system)

Rating type	GT-BF-20	GT-KF-20	
a) Rated Input voltage	12 Vdc 12 Vdc		
b) Max. Input current	0.5 A	0.5 A	
c) Enclosure	Only PCBA, without enclosure, shall be installed in at least IP34 enclosure.	PCBA with IP20 enclosure, DIN installation, shall be installed in at least IP34 enclosure.	
d) Normal operation temperature range	-40 to 85 °C		
e) altitude (m)	≤ 3000		
f) Hardware version	00		

Additional information (if necessary)

Date: 2023-09-13