

PRODUCT CHANGE NOTIFICATION

Global Bifacial Power Unification of N-Type modules

Module Series Affected: YLxxxCG2530L-1、YLxxxCG2530F-1、YLxxxCG2536L-1、YLxxxCG2536F-1

2018.7.6 // CP-OM-D-005

Introduction

Yingli Green Energy Holding Company Limited, known as “Yingli Solar”, is one of the world’s leading solar panel manufactures. Yingli recently received the bifacial module certification from TÜV Rheinland and Underwriters Laboratory (UL) for its PANDA Bifacial module. Yingli has received CGC’s Top Runner Program certification in the end of 2016. So the bifacial power of all PANDA BIFACIAL series modules will be unified including PANDA BIFACIAL 60 CL/CF and PANDA BIFACIAL 72CL/CF.

Descriptions

1. Due to the newest certificates of TÜV Rheinland and Underwriters Laboratory, there will be some update of the electrical performances, thermal characteristics, and packaging specifications in the datasheet. You can find all the details from the newest issued datasheet.
2. According to the requirements of certifications, there will also be some changes for the nameplate, please see below:

MODULE TYPE:	YL320CG2530F-1	STC	BSTC	STANDARD TEST CONDITION(STC):
MAX. SYSTEM VOLTAGE:	1500V	290.0W	320.0W	AM1.5, 25℃, 1000W/m ² IRRADIANCE.
FIRE RESISTANCE RATING:	CLASS A	RATED VOLTAGE:	32.3V	32.3V
MAX. SERIES FUSE:	20A	RATED CURRENT:	8.98A	9.97A
BIFACIALITY COEF.(φIsc) :	81.5%	OPEN-CIRCUIT VOLTAGE:	39.2V	39.2V
BIFACIALITY COEF.(φVoc) :	99.3%	SHORT-CIRCUIT CURRENT:	9.34A	10.36A
BIFACIALITY COEF.(φPmax) :	82.0%	TOLERANCE(Pmax/Voc/Isc) :	±3%	±3%
POWER TEMP. COEF.(Pmax) :	-0.38%/℃	POWER SELECTION:	0/+5W	0/+5W
VOLTAGE TEMP. COEF.(Voc) :	-0.30%/℃			
CURRENT TEMP. COEF.(Isc) :	0.04%/℃			



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WARNING!
 WARNING! ELECTRICAL HAZARD.
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Implementation

Yingli Solar has scheduled to implement the newest datasheet and nameplate at the beginning of August 2018. If you sign the order from now to August 1st 2018 under the newest bifacial-power certificates, please kindly use the latest issued datasheet and nameplate.

If you have more product and technical questions, please kindly contact the email service@yingli.com. You can also ask your sales manager if you need the new datasheet and other technical documents or you have any other questions.



Note:

(1) The bifacial power range Yingli has already got from TÜV Rheinland and Underwriters Laboratory (UL) is as below:

Certificate	PANDA BIFACIAL 72 Cell	PANDA BIFACIAL 60 Cell
TÜV Rheinland	375-385W	310-320W
UL	350-395W	300-340W

(2) Attachment 1 includes all the abolished and valid document versions.

L : Frameless (Double glass module without frame)

F : Frame (Double glass module with frame)

BSTC: Bifacial Standard Test Condition

NMOT: Nominal Module Operating Temperature

Bifaciality : Bifaciality refers to the ratios between the main I-V characteristics of the rear side and the front side of a bifacial device, typically at Standard Test Conditions (STC) unless otherwise specified. It is quantified with reference to bifaciality coefficients, namely the short-circuit current bifaciality coefficient

Attachment 1

Table 1: Abolished and valid versions of PANDA BIFACIAL modules under TÜV Rheinland certificate.

Crystal Type	Module Type	Abolished Version	Valid Version
N-type Mono	YLxxxCG2530L-1	DS_PANDA BIFACIAL 60CL_CN_CN_20180115_V04	DS_PANDA BIFACIAL 60CL_CN_CN_20180615_V04
		DS_PANDA BIFACIAL 60CL_EU_EN_20180115_V04	DS_PANDA BIFACIAL 60CL_EU_EN_20180615_V04
	YLxxxCG2530F-1	DS_PANDA BIFACIAL 60CF_CN_CN_20180115_V04	DS_PANDA BIFACIAL 60CF_CN_CN_20180615_V04
		DS_PANDA BIFACIAL 60CF_EU_EN_20180115_V04	DS_PANDABIFACIAL 60CF_EU_EN_20180615_V04
	YLxxxCG2536L-1	DS_PANDA BIFACIAL 72CL_CN_CN_20180115_V04	DS_PANDA BIFACIAL 72CL_CN_CN_20180615_V04
		DS_PANDA BIFACIAL 72CL_EU_EN_20180115_V04	DS_PANDA BIFACIAL 72CL_EU_EN_20180615_V04
	YLxxxCG2536F-1	DS_PANDA BIFACIAL 72CF_CN_CN_20180115_V04	DS_PANDA BIFACIAL 72CF_CN_CN_20180615_V04
		DS_PANDA BIFACIAL 72CF_EU_EN_20180115_V04	DS_PANDA BIFACIAL 72CF_EU_EN_20180615_V04

Table 2: Abolished and valid versions of PANDA BIFACIAL modules under UL certificate.

Crystal Type	Module Type	Abolished Version	Valid Version
N-type Mono	YLxxxCG2530L-1	DS_PANDA BIFACIAL 60CL_US_EN_20180115_V04	DS_PANDA BIFACIAL 60CL_US_EN_20180615_V04
	YLxxxCG2536L-1	DS_PANDA BIFACIAL 72CL_US_EN_20180115_V04	DS_PANDA BIFACIAL 72CL_US_EN_20180615_V04
	YLxxxCG2536F-1	DS_PANDA BIFACIAL 72CF_US_EN_20180115_V04	DS_PANDA BIFACIAL 72CF_US_EN_20180615_V04