

JLCB-P-03 series PV combiner box

Metal style 6 in 1 out-24 in 1 out

















1. General

The **JLCB-P-03 series PV combiner box**, available in configurations from 1 to 6 inputs, is designed to provide overcurrent and overvoltage protection, enhancing the safety and reliability of inverters operating in solar power systems with a maximum DC input voltage of **550V or 1000V**.

This series is built in strict accordance with the **CGC/GF 037:2014** standard, featuring a durable construction with an **ABS base and PVC cover**, a **waterproof rating of IP65**, and **flame-retardant** properties. Each unit undergoes thorough testing for **temperature rise, impact resistance, UV resistance**, and other performance parameters before delivery.

Custom designs are available to suit specific user requirements.

2. Specifications

Model	1/1		2/1		4/1		4/2		6/1
Electric Parameter									
Number of Inputs strings	1		2		4		4		6
Output max power	10kW	20kW	16 kW	32kW	32kW	63kW	32kW	63kW	63kW
Max.Rated Voltage DC	550V	1000V	550V	1000V	550V	1000V	550V	1000V	1000V
Material of Box	ABS/PVC								
Maximum input current for each string	15A								
	16/20A	16/20A	20/32A	20/32A	50/63A	50/63A	20/32A	20/32A	63A
Number of Outputs strings	1								
Lightening Protection									
Category of test	Ⅱ grade protection								
Nominal discharge current	20kA								
Maximum discharge current	40kA								
Poles of DC surge protector	2Poles	3Poles	2Poles	3Poles	2Poles	3Poles	2Poles	3Poles	3Poles
Voltage protection level Up	2.8kV	3.8kV	2.8kV	3.8kV	2.8kV	3.8kV	2.8kV	3.8kV	3.8kV
Maximum continuous operating voltage Uc	630V	1050V	630V	1050V	630V	1050V	630V	1050V	1050V
Structure Characteristic	Plug-push module								
Product system									
Protection grade	IP65								
Solar connector EMC4	Standard								
PG gland	Standard								
DC fuse	Standard								
DC SPD	Standard								

DC circuit breaker	Standard
Monitoring module	Optional
Anti reverse diode	Standard
Installation method	Surface mounting type
Ambient temperature range	-25°C~+55°C
Altitude	2000m
Permissible relative humidity	0-95% no condensation

3. Connection Diagram