

PRODUCT INTRODUCTION

The NQPV2M-32 Series Photovoltaic DC Switch is mainly used in photovoltaic systems with a rated voltage of 1-1200V. It serves as a crucial switching component between photovoltaic panels, controllers, and storage batteries. When circuit maintenance is required or an emergency situation calls for circuit disconnection, the switch allows manual shutdown of the circuit power supply, ensuring the normal operation and safety of the circuit.

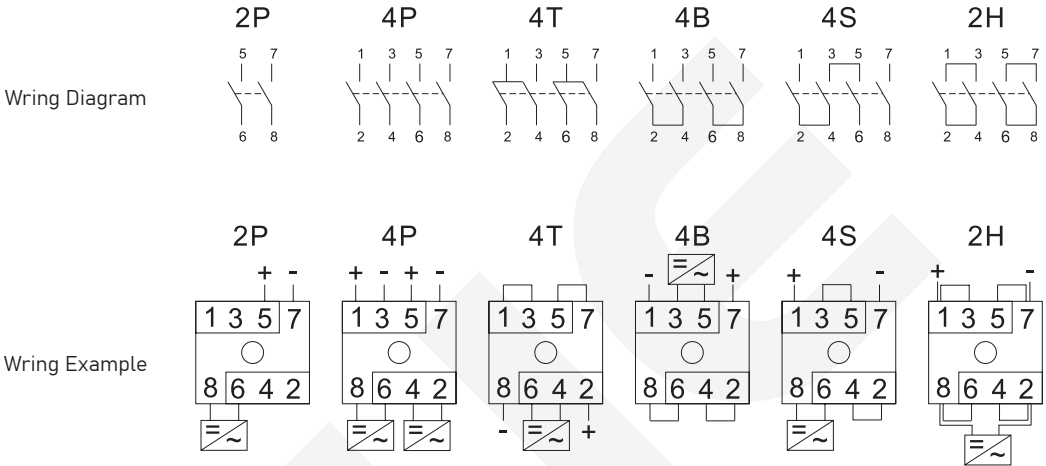
The product is constructed using high-quality phosphor bronze and pure silver contacts, and is equipped with a built-in arc-extinguishing system. It features fast connection, a long service life, high temperature resistance, flame retardancy, water resistance, and dust resistance.

The product compliant with GB/T 14048.3 and IEC 60947.3 standard

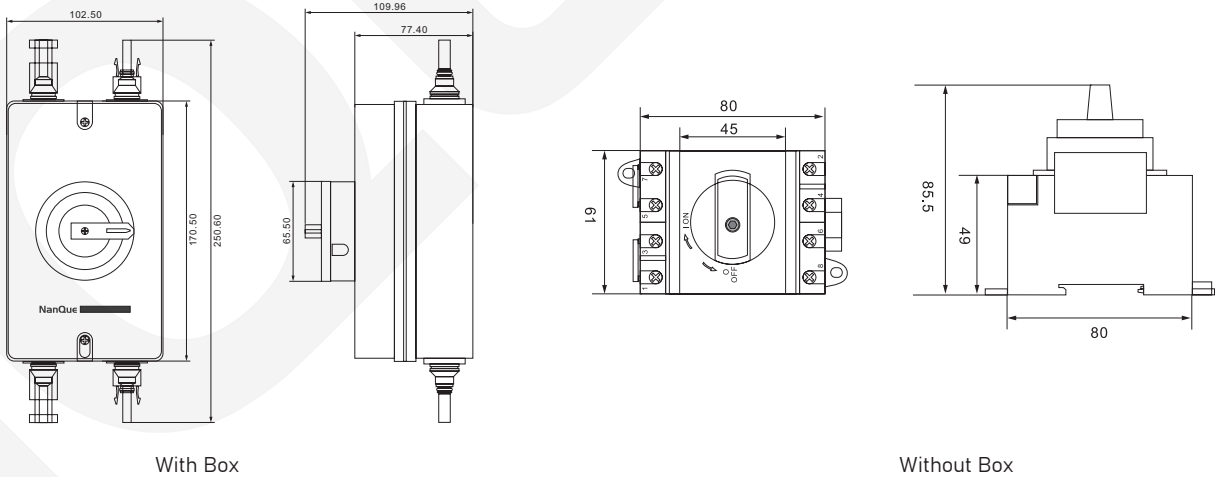
PARAMETERS

Product Model		NQPV2M-32				
Electrical Characteristics						
Pole Number		4P				
Rated Working Voltage Ue(V) DC		300	600	800	1000	1200
Max Working Voltage Uc(V) DC		1200				
Rated Current Ie (Wiring Type: Current)	2P/4P	32A	27A	17A	10A	8A
	4P/4B/4S	32A	32A	32A	32A	32A
	2H	45A	40A	/	/	/
Rated Breaking Capacity Icu (kA)		1.7				
Protection Degree (IP Code)		IP66(With box), IP20(Without box)				
Mechanical Characteristics						
Mechanical Service Life (Times)		6000				
Electrical Service Life (Times)		3000				
Reference Ambient Temperature		30°C				
Operating Ambient Temperature		- 35°C - + 70°C				
Storage Temperature		- 40°C - + 85°C				
Installation Characteristics						
Maximum Wiring Torque(N.m)		3.5				
Handle Operation Torque(N.m)		5				
Installation		Wall mount				

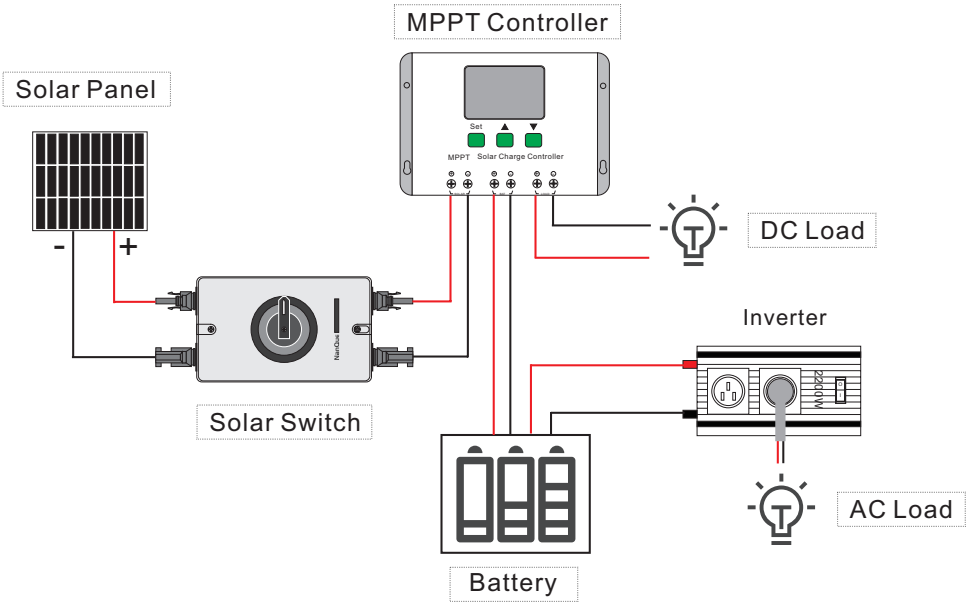
WIRING DIAGRAM AND EXAMPLES



SIZE (UNIT: MM)



WIRING METHOD



PRECAUTIONS AND WARNING

1. Ensure the PV system is fully de-energized before operating or wiring the DC1200V switch to avoid electric shock.
2. Use only wires rated for DC1200V or higher; improper wire rating may cause overheating or insulation failure.
3. Tighten terminal connections to the specified torque; loose connections lead to arcing and switch damage.
4. Verify the switch's polarity matches the PV string (positive to positive, negative to negative) to prevent reverse current.
5. After installation, conduct an insulation resistance test ($\geq 100\text{M}\Omega$ at 1200V DC) to ensure no leakage risks.