

HT Series PV Converter

SPECIFICATION



1. Product Introduction

1.1. Model Description

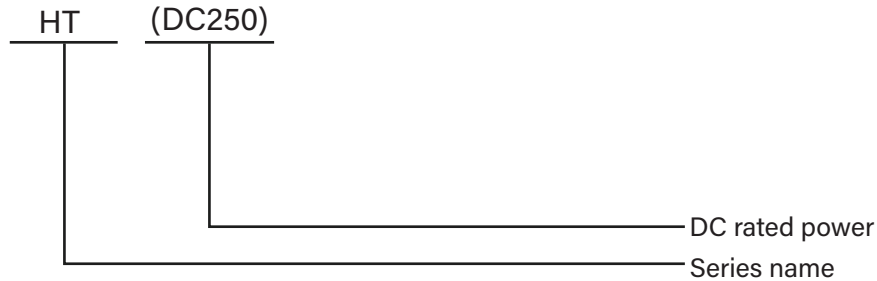


Figure 1-1 Model identification



Description:

- Rated output power can be flexibly configured according to project requirements.

1.2. Product Function

HT -DC series PV converter integrates local energy management monitoring system. It is modularized for easy maintenance and capacity expansion; front-maintenance, which reduces footprint and maintenance access; and is characterized by safety and reliability, rapid deployment, low cost, high energy efficiency and intelligent management.

1.3. Electrical Wiring Diagram

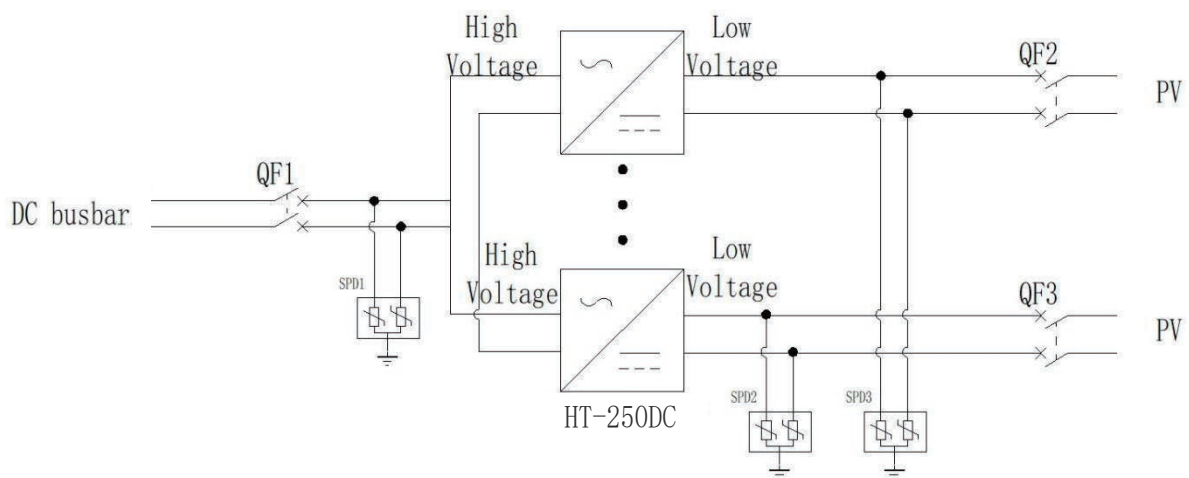


Figure 1-2 Electrical Wiring Diagram

1.4. Product Features

HT-DC series PV converter adopts advanced digital control technology, equipped with self-developed Lotus-Pcs microgrid management system to optimize the control performance and improve the reliability of the system to meet the needs of multi-application scenarios, its performance characteristics are as follows:

- There are two types of cabinets for indoor and outdoor use, meeting the needs of various installation sites.
- Modular rack design, with flexible configuration, convenient expansion and maintenance.
- Three-level circuit design of the power module, with high conversion efficiency and improved power utilization.
- The local control panel can realize various functions such as converter operation monitoring, energy management strategy development, and remote equipment upgrading.

1.5. Product Parameters

The following are typical configuration parameters for Monet series PV converters, the actual delivery is subject to the technical agreement.

Table 1-1 PV Converter Parameters

<i>Model</i>	<i>HT- (DC250)</i>
<i>Photovoltaic(PV) port</i>	
<i>PV input voltage</i>	<i>315-550V (Minimum battery voltage -50V)</i>
<i>Max.PV input current</i>	<i>5*160A</i>
<i>MPPT quantity</i>	<i>1/5</i>
<i>Battery port</i>	
<i>Battery voltage range</i>	<i>600~950V</i>
<i>DC side bus power</i>	<i>250kW</i>
<i>Number of DC side inputs</i>	<i>1</i>
<i>General Parameters</i>	
<i>Degree of protection</i>	<i>IP21 (Indoor); IP54 (Outdoor)</i>
<i>Protective Class</i>	<i>I</i>
<i>Isolation mode</i>	<i>Non-Isolation</i>
<i>Shutdown self-discharge</i>	<i>< 0.1%Rated Power (Without transformer)</i>

<i>Display</i>	<i>LCD</i>
<i>Relative humidity</i>	<i>0 ~ 95% (No condensation)</i>
<i>Noise</i>	<i>< 78dB</i>
<i>Ambient temperature</i>	<i>-25°C to +60°C(Derating above 45°C)</i>
<i>Cooling mode</i>	<i>Intelligent air-cooled</i>
<i>Altitude</i>	<i>3000m (> 2000m reduction)</i>
<i>BMS Communication</i>	<i>CAN</i>
<i>EMS Communication</i>	<i>RS485 / CAN/Ethernet</i>
<i>Dimensions (W*D*H)</i>	<i>800*800*2100mm (Indoor); 900*1000*2150mm (Outdoor)</i>
<i>Weight (approx.)</i>	<i>450kg (Indoor); 650kg</i>

1.6. Appearance Diagram

