

PDA Series

Air-Cooling Programmable DC Power supply



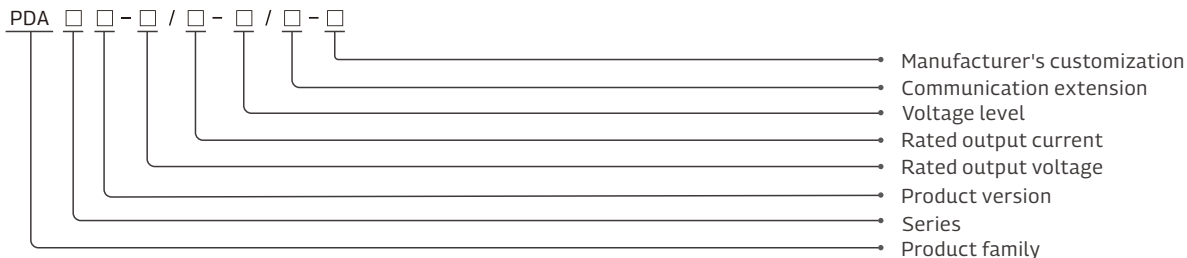
Features

- Using SIC devices and high-speed DSP as the control core
- Equipped with power factor correction technology
- Using high-precision analog integrated circuits for PWM regulation
- Automatic switching between constant voltage, constant current, and constant power
- Equipped with power-off parameter memory function
- Equipped with telemetry function, used to compensate for voltage drop on load lines
- High precision adjustment through digital encoder
- Support external isolated/non isolated analog programming (0-5V, 0-10V, 4-20mA or 0-10k Ω)
- Support external isolated/non isolated analog monitoring (0-5V, 0-10V, or 4-20mA)
- Support over 10 types of conventional industrial bus communication
- Support parallel operation of multiple machines
- Standard 1U-3U chassis, light weight, small size, high power factor, and energy saving

Usages

- The PDA Series is mainly used in semiconductors, lasers, accelerators, high-energy physics equipment, laboratories, testing and other industries.

Definitions



Specifications

Input	
Input voltage	0.75kW, 1.5kW: 1ΦAC 176-265V
	2.4kW, 3.3kW: 1ΦAC 176-265V/3ΦAC 176-265V/3ΦAC342-460V
	5kW, 10kW, 15kW: 3ΦAC 176-265V/3ΦAC342-460V
Conversion efficiency	≥90%
Power factor	Reachable 0.99
Output	
Output power	0.75kW, 1.5kW, 2.4kW, 3.3kW, 5kW, 10kW, 15kW
Output voltage	6V-600V
Output current	1.3A-1800A
Performance index	
Temperature coefficient	Reachable 100ppm/°C
Communication	Standard RS485, expandable RS232, CAN, DeviceNET, PROFIBUS, PROFINET, ETHERCAT, ETHERNET IP, MODBUS TCP etc.
Size	0.75kW-5kW: 1U, 10kW: 2U, 15kW: 3U
Cooling method	Air-cooling
Constant voltage mode	
Noise	≤0.5% Ue
Ripple wave	≤0.05% Ue
Input adjustment rate	0.05% Ue
Load adjustment rate	0.05% Ue
Stability	≤5×10 ⁻⁴
Constant current mode	
Ripple wave	≤0.5% Ie
Input adjustment rate	0.05% Ie
Load adjustment rate	0.05% Ie
Stability	≤5×10 ⁻⁴

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