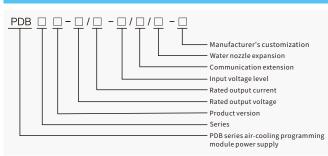


### Usages

The PDB Series is a high-precision, high-stability water-cooling DC power supply with a maximum output power of 40kW with a standard chassis design. This series are widely used in lasers, magnet accelerators, semiconductor preparation, laboratories and other demanding industries.

### Definitions



# **Specifications**

Model	PDB 340				
	3¢AC180-242V (T2)				
Input voltage	3¢AC342-460V (T4)				
Power	10 kW	20 kW	30 kW	40 kW	
Output voltage (VDC)	Output current (A)				
6					
8					
10	1000				
12.5	800	1000			
15	667	1000			
20	500	1000			
25	400	800	1000		
30	333	667	1000		
40	250	500	750	1000	
50	200	400	600	800	
60	167	333	500	667	
80	125	250	375	500	
100	100	200	300	400	
125	80	160	240	320	
150	67	133	200	267	
200	50	100	150	200	
250	40	80	120	160	
300	34	67	100	136	
400	25	50	75	100	
500	20	40	60	80	
600	17	34	51	68	

# Programmable DC Power Supply

#### **PDB** Series

High Efficiency Programmable DC Power Supply

## Features

- Standard 3U chassis design
- Chinese human-computer interaction interface
- Wide volage design to meet various power grid uses
- IGBT inverter technology and high-speed DSP as the control core
- Automatic switching between constant voltage and current
- Telemetry function to compensate voltage drops on load lines
- High-precision regulation of voltage and current through a digital encoder
- Support over 10 conventional industrial bus communications
- External analog programming and monitoring (0-5V or 0-10V)
- Support multi-machine parallel operation
- Light weight, small size, high power factor and high efficiency
- CE certification qualified

Performance inde	2X		
Conversion efficiency	84%~90% (Full load)		
Power factor	>0.9 (Fullload)		
Temperature coefficient ppm/°C(100%RL)	100		
Dimension	3U case		
Cooling mode	Water-cooling		
Constant voltage	mode		
Noise (20MHz)mVp-p	70~400		
Ripple wave (5Hz–1MHz)mVrms	30~75		
Maximum compensation voltage V	± 3V		
Input adjustment rate (100%RL)	$5\times10^{^{-4}}$ ( Above 25kW )	$1\times10^{^{-4}}$ ( Above 25kW )	
Load adjustment rate (10~100%RL)	$5\times10^{^{-4}}$ ( Above 25kW $)$	$3 \times 10^{-4}$ ( Above 25kW )	
Stability 8h(100%RL)	$1\times10^{^{-4}}$ ( $7.5V\sim80V$ ) , $5\times10^{^{-4}}$ ( $100V\sim400V$ )		
Constant current	mode		
Noise (20MHz)mVp-p	70~400		
Ripple wave (5Hz~1MHz)mVrms	30~65		
Input adjustment rate (100%RL)	$1\times10^{-4}$ ( Below 25kW )	$5 \times 10^{-4}$ ( Below 25kW )	
Load adjustment rate (10~100%RL)	$3\times10^{-4}$ ( Below 25kW )	$5 \times 10^{-4}$ ( Below 25kW )	
Stability 8h(100%RL)DCCT	$4\times10^{^{-4}}$ ( $25V\sim200V$ ) , $1\times10^{^{-4}}$ ( $250V\sim750V$ )		