

Product Guide

IPS-DH Series DC Power Supply

Guangzhou IDEALPLUSING information technology co., LTD

IPS

CONTENTS

Programmable DC Electronic Load	- 1 -
Product Introduction	- 1 -
Product Features	- 2 -
Product Specification Sheet	- 3 -
Single-Channel Product Specifications	- 4 -
Multi-Channel Product Parameters	- 5 -
Product Detail Page - W215 x H88 x L315 mm	- 7 -
Product Detail Page - W425 x H88 x L315 mm	- 8 -
Product Detail Page - W425 x H88 x L480 mm	- 9 -
Product Detail Page - W215 x H176 x L480 mm	- 10 -

Programmable DC Electronic Load



Product Introduction

The IPS-DH-83XX series electronic loads feature comprehensively enhanced transient testing capabilities and multi-faceted intelligent analysis, fully integrated into their automated testing functions. They are particularly well-suited for mass production and incoming material inspection in the power supply and related industries. Furthermore, their programmable current slew rates, high-speed dynamic loading capabilities, and programmable sequence functions are designed to meet the majority of R&D requirements. The unique synchronized master-slave parallel operation timing allows for the simultaneous loading of multi-output power supplies, as well as power expansion for single-output power supplies.

Product Features

- ◆ Maximum Power: 1200W; Maximum Current: 240A; Maximum Voltage: 1200V.
- ◆ Measurement of Voltage/Current (V_{pp}/I_{pp}), Peak Values (V_{p+}/I_{p+}), and Valley Values (V_{p-}/I_{p-}).
- ◆ Programmable Current Rise/Fall Rates.
- ◆ Four Basic Operating Modes: Constant Current (CC), Constant Voltage (CV), Constant Power (CP), and Constant Resistance (CR).
- ◆ Supports LED Simulation Function.
- ◆ Dynamic Load Mode (DYNA) up to 50 kHz, including measurement of Voltage Peaks/Valleys (V_{p+}/V_{p-}) and Current Peaks/Valleys (I_{p+}/I_{p-}).
- ◆ Supports Ripple Measurement Function up to 20 MHz.
- ◆ Supports Over-Current Protection (OCP) Testing.
- ◆ Supports Timing Measurement.
- ◆ Supports Short-Circuit Simulation Function.
- ◆ Supports Standalone Automatic Testing (A-Test), compatible with all extended modes and all test items.
- ◆ Supports Remote Sensing (Compensation).
- ◆ Supports Von and Voff Functions.
- ◆ Automatic Test Function supports the storage and recall of 8 files, with 50 steps of global data per file.
- ◆ Current Sequence Function supports the storage and recall of 8 files, with 200 steps of global data per file.
- ◆ High-brightness, wide-viewing-angle 5-inch large touchscreen graphic dot-matrix display.
- ◆ Over-Voltage, Over-Current, Over-Power, and Over-Temperature Protection.
- ◆ Intelligent Fan System.
- ◆ Electrically isolated external trigger input.
- ◆ Electrically isolated standard RS232 interface.
- ◆ Standard SCPI protocol support.

Product Specification Sheet

Single-channel	IPS-DH-8311	150VDC30A	150W	W215 × H88 × L315 mm
	IPS-DH-8321	150VDC60A	300W	W215 × H88 × L315 mm
	IPS-DH-8331	150VDC120A	600W	W215 × H88 × L315 mm
	IPS-DH-8341	150VDC240A	1200W	W425 × H88 × L315 mm
	IPS-DH-8311M	600VDC15A	150W	W215 × H88 × L315 mm
	IPS-DH-8321M	600VDC30A	300W	W215 × H88 × L315 mm
	IPS-DH-8331M	600VDC60A	600W	W215 × H88 × L315 mm
	IPS-DH-8341M	600VDC120A	1200W	W425 × H88 × L315 mm
	IPS-DH-8311H	1200VDC6A	150W	W215 × H88 × L315 mm
	IPS-DH-8321H	1200VDC15A	300W	W215 × H88 × L315 mm
	IPS-DH-8331H	1200VDC30A	600W	W215 × H88 × L315 mm
	IPS-DH-8341H	1200VDC60A	1200W	W425 × H88 × L315 mm
	IPS-DH-8501	150VDC240A	1800W	W425 × H88 × L480 mm
	IPS-DH-8502	150VDC240A	2400W	W425 × H88 × L480 mm
	IPS-DH-8503	150VDC300A	3000W	W425 × H88 × L480 mm
	IPS-DH-8504	150VDC300A	3600W	W425 × H176 × L480 mm
	IPS-DH-8505	150VDC300A	4200W	W425 × H176 × L480 mm
	IPS-DH-8506	150VDC300A	4800W	W425 × H176 × L480 mm
	IPS-DH-8501M	600VDC120A	1800W	W425 × H88 × L480 mm
	IPS-DH-8502M	600VDC120A	2400W	W425 × H88 × L480 mm
	IPS-DH-8503M	600VDC150A	3000W	W425 × H176 × L480 mm
	IPS-DH-8504M	600VDC150A	3600W	W425 × H176 × L480 mm
	IPS-DH-8505M	600VDC150A	4200W	W425 × H176 × L480 mm
	IPS-DH-8506M	600VDC150A	4800W	W425 × H176 × L480 mm
	IPS-DH-8501H	1200VDC15A	1800W	W425 × H88 × L480 mm
	IPS-DH-8502H	1200VDC15A	2400W	W425 × H88 × L480 mm
	IPS-DH-8503H	1200VDC30A	3000W	W425 × H176 × L480 mm
	IPS-DH-8504H	1200VDC30A	3600W	W425 × H176 × L480 mm

	IPS-DH-8505H	1200VDC30A	4200W	W425 × H176 × L480 mm
	IPS-DH-8506H	1200VDC30A	4800W	W425 × H176 × L480 mm
Multi-channel	IPS-DH-8312	150VDC30A	2*150W	W215 × H88 × L315 mm
	IPS-DH-8322	150VDC60A	2*300W	W215 × H88 × L315 mm
	IPS-DH-8314	150VDC30A	4*150W	W215 × H88 × L315 mm
	IPS-DH-8318	150VDC30A	8*150W	W425 × H88 × L365 mm
	IPS-DH-8324	150VDC60A	4*300W	W425 × H88 × L365 mm
	IPS-DH-8332	150VDC120A	2*600W	W425 × H88 × L365 mm
	IPS-DH-8312M	600VDC15A	2*150W	W215 × H88 × L315 mm
	IPS-DH-8322M	600VDC30A	2*300W	W215 × H88 × L315 mm
	IPS-DH-8314M	600VDC15A	4*150W	W215 × H88 × L315 mm
	IPS-DH-8318M	600VDC15A	8*150W	W425 × H88 × L365 mm
	IPS-DH-8324M	600VDC30A	4*300W	W425 × H88 × L365 mm
	IPS-DH-8332M	600VDC60A	2*600W	W425 × H88 × L365 mm
	IPS-DH-8312H	1200VDC6A	2*150W	W215 × H88 × L315 mm
	IPS-DH-8322H	1200VDC15A	2*300W	W215 × H88 × L315 mm
	IPS-DH-8314H	1200VDC6A	4*150W	W215 × H88 × L315 mm
	IPS-DH-8318H	1200VDC6A	8*150W	W425 × H88 × L365 mm
	IPS-DH-8324H	1200VDC15A	4*300W	W425 × H88 × L365 mm
IPS-DH-8332H	1200VDC30A	2*600W	W425 × H88 × L365 mm	

Single-Channel Product Specifications

Model		IPS-DH-8311		IPS-DH-8321		IPS-DH-8331		IPS-DH-8341	
Rated Input	Power	150W		300W		600W		1200W	
	Voltage	0~15VDC	0~150VDC	0~15VDC	0~150VDC	0~15VDC	0~150VDC	0~15VDC	0~150VDC
	Current	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A	0~24A	0~240A
	Vmin	1VDC@30A		1VDC@60A		1VDC@120A		1VDC@240A	
CC Mode	Range	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A	0~24A	0~240A
	Resolution	0.5mA	1mA	0.5mA	1mA	1mA	10mA	1mA	10mA

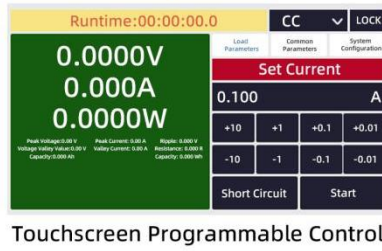
	Accuracy	0.05% + 0.05% FS							
CV Mode	Range	0~15VDC	0~150VDC	0~15VDC	0~150VDC	0~15VDC	0~150VDC	0~15VDC	0~150VDC
	Resolution	0.5mV	3mV	0.8mV	8mV	1mV	10mV	1.3mV	13mV
	Accuracy	0.03% + 0.05% FS							
CP Mode	Range	150W		300W		600W		1200W	
	Resolution	16Bits							
	Accuracy	0.1% + 0.1% FS							
CR Mode	Range	0.05 Ω ~50K Ω		0.05 Ω ~50K Ω		0.05 Ω ~50K Ω		0.05 Ω ~50K Ω	
	Resolution	16Bits							
	Accuracy	(0.1 + 0.01R)%		(0.1 + 0.01R)%		(0.1 + 0.02R)%		(0.1 + 0.02R)%	
LED Mode	Bandwidth	100kHz and above							
	RdCR	0.001~1							
Dynamic Operation Mode	Range	10uS~50S							
	Resolution	2uS							
	Accuracy	1uS+20PPM							
	Slew Rate	0.6A/mS~3A/uS		0.6A/mS~3A/uS		1.2A/mS~3A/uS		1.2A/mS~3A/uS	
Voltage Measurement	Range	0~15VDC	0~150VDC	0~15VDC	0~150VDC	0~15VDC	0~150VDC	0~15VDC	0~150VDC
	Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV
	Accuracy	0.02% + 0.05% FS							
Current Measurement	Range	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A	0~24A	0~240A
	Resolution	0.1mV	1mV	0.1mV	2mV	0.2mV	2mV	0.2mV	2mV
	Accuracy	0.03% + 0.05% FS							
Ripple Measurement	Range	0~150VDC							
	Resolution	10Hz~20MHz							
	Accuracy	1mV							

Multi-Channel Product Parameters

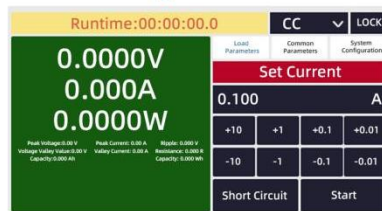
Model		IPS-DH-8312		IPS-DH-8322		IPS-DH-8314		IPS-DH-8318		IPS-DH-8324		IPS-DH-8332	
Rated Input	Power	150W*2		300W*2		150W*4		150W*8		300W*4		600W*2	
	Voltage	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~150 VDC	0~150 VDC

	Current	0~3A	0~30A	0~6A	0~60A	0~3A	0~30A	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A
	Vmin	1VDC@30A		1.4VDC@60A		1VDC@30A		1VDC@30A		1.4VDC@60A		1.8VDC@120A	
CC Mode	Range	0~3A	0~30A	0~6A	0~60A	0~3A	0~30A	0~3A	0~30A	0~6A	0~60A	0~6A	0~60A
	Resolution	0.05mA	0.5mA	0.05mA	0.5mA	0.05mA	0.5mA	0.05mA	0.5mA	0.05mA	0.5mA	0.05mA	0.5mA
	Accuracy	0.05% + 0.05%FS											
CV Mode	Range	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~150 VDC	0~150 VDC
	Resolution	0.2mV	2mV	0.2mV	2mV	0.2mV	2mV	0.2mV	2mV	0.2mV	2mV	0.2mV	2mV
	Accuracy	0.05% + 0.05% FS											
CP Mode	Range	150W		300W		150W		150W		300W		600W	
	Resolution	16Bits											
	Accuracy	0.1% + 0.1% FS											
CR Mode	Range	0.05 Ω ~50K Ω		0.05 Ω ~50K Ω		0.05 Ω ~50K Ω		0.05 Ω ~50K Ω		0.05 Ω ~50K Ω		0.05 Ω ~50K Ω	
	Resolution	16Bits											
	Accuracy	(0.1 + 0.01R)%		(0.1 + 0.01R)%		(0.1 + 0.02R)%		(0.1 + 0.01R)%		(0.1 + 0.01R)%		(0.1 + 0.02R)%	
LED Mode	Bandwidth	100kHz and above											
	RdCR	0.001~1											
Dynamic Operation Mode	Range	10uS~50S											
	Resolution	2uS											
	Accuracy	1uS+20PPM											
	Slew Rate	0.6A/mS~3A/uS		0.6A/mS~3A/uS		1.2A/mS~3A/uS		0.6A/mS~3A/uS		0.6A/mS~3A/uS		1.2A/mS~3A/uS	
Voltage Measurement	Range	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~15 VDC	0~150 VDC	0~150 VDC	0~150 VDC
	Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV
	Accuracy	0.02% + 0.05% FS											
Current Measurement	Range	0~3A	0~30A	0~6A	0~60A	0~3A	0~30A	0~3A	0~30A	0~6A	0~60A	0~12A	0~120A
	Resolution	0.01mA	0.1mA	0.01mA	0.2mA	0.02mA	0.2mA	0.01mA	0.1mA	0.01mA	0.2mA	0.04mA	1mA
	Accuracy	0.03% + 0.05% FS											
Ripple Measurement	Range	0~150VDC											
	Resolution	10Hz~10MHz											
	Accuracy	1mV											

Product Detail Page - W215 x H88 x L315 mm



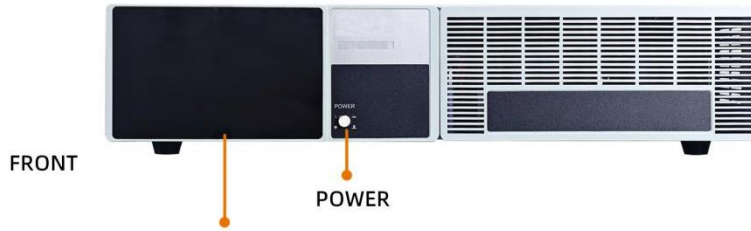
Product Detail Page - W425 x H88 x L315 mm



Touchscreen Programmable Control



Product Detail Page - W425 x H88 x L480 mm

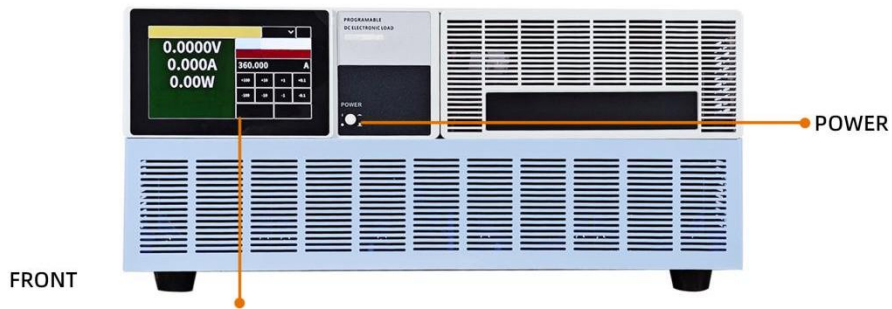


Touchscreen Programmable Control



Dimensions:
W425 x H88 x L480 mm

Product Detail Page - W215 x H176 x L480 mm



Touchscreen Programmable Control

