



AD-Series

500 / 800 / 1500 / 3000 W
Programmable Digital Power Supply

In many applications, programmable power users continue to increase their demand for the power sources that offer CC and CV operation along with programmability, flexibility and user configurability. In response to market demand, Cotek successively developed our new programmable power supply, AD series to minimize Engineer's design-in efforts while fulfilling the complex requirements stated above.

Key features

- Universal AC input/Full range (90~264Vac)
- Programmable output voltage & current 0~105%
- Output voltages available from 12VDC up to 400VDC
- Current sharing at parallel operation
- Constant current limit
- AUX POWER : +5.0V/1.0A auxiliary
- Built-in OR'ing FETs
- Power OK signal (built-in isolation circuit)
- Remote on/off function
- Support PMBus(meet), MODBUS, RS232/485, and I²C protocol
- Protection: OVP, OLP, OTP and Fan Failures
- Built-in VR to adjust output voltage & current (C11 version)
- Built-in EEPROM to memorize power supply settings
- Optional Changeable interface cards: A23, A24, C11 and D11 Ethernet
- Intelligent GUI to set and monitoring parameter
- Support Parallel operation via CANBUS
 - Built-in isolation circuit (A23, A24 and D11 Version)
 - With ID: 1+7 (Master and slave in total of 8pcs) to support 10.8KW
 - Without ID: 250pcs to support up to 337.5KW



Smart GUI

to set and monitoring the power supplies remotely

1 Display Dashboard & Data charts

Showing output voltage / current / wattage & NTC temperature ... info

2 AD-1500 Setting

To program output voltage & current from 0-105% & turn on / off the PSU

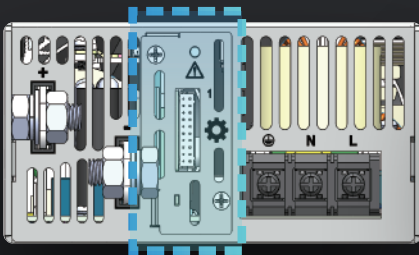
3 Power Supply & GUI Version Info.

Show the monitoring state of AD

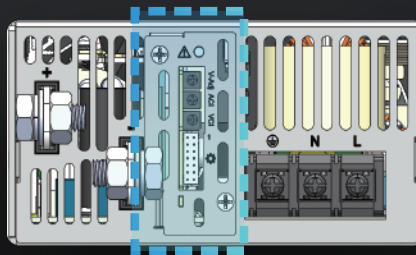


Interface card

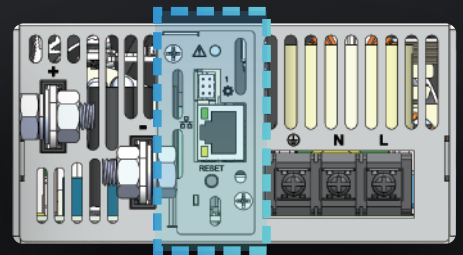
1. Standard Support Parallel Connection A23 & A24



2. Single unit C11



3. Ethernet Support Parallel Connection D11



- Easier Parallel setup & Operation via CANBUS
- Communication Interface : Standard / Single / Ethernet
- Communication protocol : **A23** : COTEK Standard Protocol (RS-485) & Meet PMBus

A24 : MODBUS & Meet PMBus

C11 : COTEK Standard Protocol (RS-485)

D11 : ARP, Device Search Utility (DSU), DHCP Client, IPv4, SNMP, TCP, UDP, ICMP

AD-500

Coming
Soon

		AD-500-12	AD-500-15	AD-500-24	AD-500-30	AD-500-36	AD-500-48	AD-500-60
Output	DC Voltage Rated	12V	15V	24V	30V	36V	48V	57V
	Rated Current	41.7A	33.3A	20.8A	16.7A	13.9A	10.4A	8.76A
	Current Range	0 ~ 41.7A	0 ~ 33.3A	0 ~ 20.8A	0 ~ 16.7A	0 ~ 13.9A	0 ~ 10.4A	0 ~ 8.76A
	Voltage Range	0~105% vs. rated						
	Rated Power	500W						
	Ripple & Noise (Max.)	120mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	570mVp-p

AD-800

Coming
Soon

		AD-800-12	AD-800-15	AD-800-24	AD-800-30	AD-800-36	AD-800-48	AD-800-60
Output	DC Voltage Rated	12V	15V	24V	30V	36V	48V	57V
	Rated Current	66.7A	53.4A	33.5A	26.7A	22.3A	16.7A	14A
	Current Range	0 ~ 66.7A	0 ~ 53.4A	0 ~ 33.5A	0 ~ 26.7A	0 ~ 22.3A	0 ~ 16.7A	0 ~ 14A
	Voltage Range	0~105% vs. rated						
	Rated Power	800W						
	Ripple & Noise (Max.) (Note. 2)	120mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	570mVp-p

AD-1500 LV & HV

		AD-1500-12	AD-1500-15	AD-1500-24	AD-1500-30	AD-1500-36	AD-1500-48	AD-1500-60
Output	DC Voltage Rated	12V	15V	24V	30V	36V	48V	57V
	Rated Current	125A	100A	62.5A	50A	41.7A	31.3A	26.3A
	Current Range	0 ~ 125A	0 ~ 100A	0 ~ 62.5A	0 ~ 50A	0 ~ 41.7A	0 ~ 31.3A	0 ~ 26.3A
	Voltage Range	0~105% vs. rated						
	Rated Power	1500W						
	Ripple & Noise (Max.) (Note. 2)	150mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	570mVp-p

		AD-1500-120	AD-1500-150	AD-1500-250	AD-1500-400
Output	DC Voltage Rated	120V	150V	250V	400V
	Rated Current	12.5A	10.0A	6.0A	3.75A
	Current Range	0 ~ 12.5A	0 ~ 10.0A	0 ~ 6.0A	0 ~ 3.75A
	Voltage Range	0~105% vs. rated			
	Rated Power	1500W			
	Ripple & Noise (Max.) (Note. 2)	1200mVp-p	1500mVp-p	2500mVp-p	4000mVp-p

AD-3000 LV & HV

Coming
Soon

		AD-3000-12	AD-3000-15	AD-3000-24	AD-3000-30	AD-3000-36	AD-3000-48	AD-3000-60
Output	DC Voltage Rated	12V	15V	24V	30V	36V	48V	57V
	Rated Current	200A	160A	125A	100A	83.4A	62.5A	52.6A
	Current Range	0 ~ 200A	0 ~ 160A	0 ~ 125A	0 ~ 100A	0 ~ 83.4A	0 ~ 62.5A	0 ~ 52.6A
	Voltage Range	0~105% vs. rated						
	Rated Power	2400W			3000W			
	Ripple & Noise (Max.) (Note. 2)	150mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	480mVp-p	570mVp-p

		AD-3000-120	AD-3000-150	AD-3000-250	AD-3000-400
Output	DC Voltage Rated	120V	150V	250V	400V
	Rated Current	25A	20A	12A	7.5A
	Current Range	0 ~ 25A	0 ~ 20A	0 ~ 12A	0 ~ 7.5A
	Voltage Range	0~105% vs. rated			
	Rated Power	3000W			
	Ripple & Noise (Max.) (Note. 2)	1200mVp-p	1500mVp-p	2500mVp-p	4000mVp-p

Applicable Applications



1

Industrial

Process Control / Burn-in / Test & Measurement / Laser-Carving / Factory Automation ...

2

Ethernet Related

Industrial automation / Air Traffic Control / Financial Services / Mission Critical Application / CCTV ...

3

Charging

EBUS/EV Charging / Warehouse automation / Smart Retail (Robotic) ...

4

Healthcare

Blood Analysis / Dental heating / Laboratory / Monitoring / Cytocentrifuge / Incubators ...

ISO
ISO 14064-1
ISO 9001



D&B ESG REGISTERED

COTEK focuses on making affordable power conversion products and works closely with customers to customize solutions. We're dedicated to environmental responsibility, embedding ESG principles in our operations to reduce our impact and benefit society and the environment.



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