

RANGES, COMMON MODELS AND DIMENSIONS

Single Phase Input (AD Series)

VDC Nominal	Current Range	Cabinet Dimension * (L x W x H mm)
24VDC / 30VDC	6 – 10A	680 x 340 x 510
24VDC / 30VDC	15 – 20 A	860 x 380 x 560
24VDC / 30VDC	25 – 30 A	970 x 380 x 560
48VDC	10 A	560 x 340 x 800 (floor standing)
		750 x 350 x 510 (table top)
48VDC	25 A	560 x 340 x 800 (floor standing)
		750 x 450 x 560 (table top)
110VDC	6 – 10A	600 x 350 x 1100 (floor standing)
		750 x 350 x 510 (table top)
110VDC	15 – 20A	600 x 450 x 1100 (floor standing)
		750 x 450 x 560 (table top)

Three Phase Input (CGAF Series & CGDF Series)

VDC Nominal	Current Range	Cabinet Dimension * (L x W x H mm)
110VDC	30 – 40 A	650 x 600 x 1400
110VDC	50 – 150 A	650 x 800 x 1800
110VDC	200 – 250 A	650 x 1000 x 2000
220VDC	40 – 80 A	650 x 800 x 1800
220VDC	100 – 150 A	650 x 1000 x 2000
220VDC	200 – 350 A	800 x 1200 x 2200

*excludes battery compartment

Other Voltages, current ranges, models & dimensions available upon request.

ORDERING INFORMATION

Charger Model: 1 phase input

AD XX / XX XX
 output voltage (nominal) ————
 output current rating ————
 QS – floor standing ————
 QF – self contained / table top ————
 QW – wall mounting ————

3 phase input

CGAF/CGDF XX – XX
 output voltage (nominal) ————
 output current rating ————

Information in this catalogue is subject to changes without prior notice.



SWEE HIN POWER SYSTEMS Pte Ltd A member of SWEE HIN Group of Companies

3 Kian Teck Way Singapore 628732. | Tel: +65 6261 6688 | Fax: +65 6265 5998
 Email: md@sweehin.com.sg | www.sweehin.com.sg



APOLLON-Diamond INDUSTRIAL BATTERY CHARGER



**THE
RELIABLE
POWER
SOURCE**

APOLLON-Diamond Industrial Battery Chargers are designed for the

- (i) automatic float and boost charging of batteries,
- (ii) charging of batteries while simultaneously supplying DC current to load and
- (iii) performing switch tripping/closing functions. The equipment is widely used in power stations, petrochemical, oil & gas industries, infrastructures such as railways and airports, and in industrial instrumentation and process control applications.

APOLLON-Diamond Industrial Battery Chargers are constant potential, current limiting in nature and uses thyristor technology to control output voltage and current. Our chargers were highly customised to meet user requirements. Microprocessors and software may be employed to control charging characteristics and provide remote surveillance and control. Analogue, digital, touchscreen and programmable displays provide a wide choice on instrumentation. A multitude of circuitry and external protection (such as IP ratings) can also be built in to meet various industrial requirements.

All APOLLON-Diamond Industrial Battery Chargers come with equipment specific documentation, drawings and operation manuals. Local and international service and support includes installation, commissioning, site testing & monitoring and service contracts.

FEATURES

DISPLAY AND CONTROL

- Indicating Lights** : Mains On, AC Fail, Float/Boost, Charger Fail, Battery High/Low Volt
- Meters** : Ammeter, Voltmeter
- Selector / Switches** : Boost/Float, Charge/Discharge

PROTECTION

- MCB** : Input/output circuit breaker
- Others** : Fuse protection against battery polarity reversal
- : Soft Start function
- : Overload protection
- : Overvoltage protection when battery disconnected

ENVIRONMENTAL

- Ambient temperature** : 0 to 55 degrees celsius
- Noise** : Approx. 45-60db
- Cooling** : Natural (single phase charger)/Fan cooled (three phase charger)

CABINETS

- Cabinet options** : Floor standing with or without battery compartment
- : Dual charger in single cabinet
- : Wall mounted or rack mounted

OPTIONAL FEATURES

- Digital Meters
- Touch screen display/control
- LCD Display
- LED Indicators (standard option)
- Programmable display
- Front panel glass door
- Microprocessor controlled charging
- Surge Suppressor
- Audible Alarm
- Battery open circuit alarm
- Ripple voltage alarm
- Voltage regulation
- Additional breakers
- RS232/485 interfacing
- Special Markings and labels
- Dropper diode
- Cabinets with various degree of IP protection

APOLLON-Diamond offers a total and customised DC system solution. A complete APOLLON-Diamond DC system package would also include APOLLON-Diamond lead acid (sealed and vented types) batteries and/or APOLLON-Diamond vented nickel cadmium batteries.

SPECIFICATIONS

		ANALOGUE	DIGITAL
■ Input	Voltage	230Vac / 380Vac	
	Tolerance	+/- 10%	
	Frequency	50 / 60Hz	
	Phase	Single phase / three phase	
■ Output	Voltage	12/24/30/48/110/220 VDC (Nominal)	48/110/220VDC (Nominal)
	Current	5 – 100A (AD Series) 30 – 1000A (CGAF Series)	30 – 1000A (CGDF Series)
■ Ripple		5% (single phase)	
		1% (three phase)	
■ Output Regulation		2%	
■ Current Limit		0 – 100% adjustable	
■ Float		Manual / Auto	
■ Boost		Manual / Auto	

* Specifications not included above may be custom-made.
Please contact our sales representative for more information.

TYPICAL LAYOUT

Single Phase Charger (AD Series)



Digital Charger (CGDF Series)



Three Phase Charger (CGAF Series)

