

# AR Series 2

## Specification

### 1. AR Series 2 Model Range:

#### Model No. 9792 AR124PLD:

- ▶ Four sequential charging channels.
- ▶ Four Paglok and four PP90 connectors.
- ▶ Built-in discharger.

#### Model No. 9793 AR124NPD:

- ▶ Four sequential charging channels.
- ▶ Four NP-type and four PP90 connectors.
- ▶ Built-in discharger.

#### Model No. 9794 AR122PL:

- ▶ Two sequential charging channels.
- ▶ Two Paglok and two PP90 connectors.

### 2. Range of Batteries Charged:

- ▶ Nickel-Cadmium batteries having nominal voltages of between 4.8V and 14.4V, and nominal capacities of between 1Ah and 10Ah.
- ▶ Nickel-Metal Hydride batteries of reputable manufacture having nominal voltages of between 4.8V and 14.4V, and nominal capacities of between 1Ah and 10Ah.
- ▶ PAG Lithium-Ion batteries.

### 3. Battery Connections:

**Paglok:** Patented, Professional PAG locking connector compatible with all Paglok batteries. Incorporates self-cleaning military-type beryllium-copper leaf contacts.

**NP:** Polarised connector suitable for Ni-Cd, Ni-MH and PAG Li-Ion NP-type batteries. Incorporates superior blade-type beryllium-copper contacts.

**PP90:** Polarised connector suitable for 2.1mm coaxial DC power connectors.  
NOTE: centre pin negative.

### 4. Main Charge Program:

- ▶ Auto Mode: automatically selects the correct charge current.
- ▶ Manual selection: 2A, 3A or 4A charge current.

- ▶ Li-Ion voltage-charge program: only available with PAG intelligent batteries or suitable PAG intelligent adaptor. PAG intelligent batteries automatically over-ride the Auto Mode or Manual selection, and control their own charge regime.

### 5. Discharge-then-Charge Program (not Model No. 9794 AR122PL):

This program discharges the battery, automatically determining the fully-discharged condition, and then fully charges it. The discharge capacity and the subsequent charge loaded into the battery can be displayed on the screen.

### 6. Recovery Charge:

This special program conditions the battery for a period of one hour. The charger will then automatically enter the Main Charge program, which will run until the battery is fully charged. This program also recovers PAG Li-Ion batteries which have been over-discharged to the point where the internal safety protection circuit has tripped.

### 7. Ancillary Charging Programs:

The following programs may be automatically entered after charging:

- ▶ Balancing Charge.
- ▶ Self-adjusting Maintenance Charge (not applied to PAG Li-Ion batteries).

### 8. Self Test Program:

The internal microcomputer constantly monitors the battery under charge or process as well as the operation of the charger's own functions which will be shut down to a safe condition should any of the tests fail.

### 9. Mains Input:

90-139V or 140-270V ~ autoselected. Frequency 47-63 Hz. Maximum power consumption 120W.

### 10. Output Protection:

Charger protected against short circuit, open circuit, excess battery voltage and reverse battery voltage.

**11. AC Mains Failure Protection:**  
Should mains failure occur during a charging program, or whilst the charger is connected, it will shut down to a safe condition.

**12. User Interface:**  
The LCD screen has a display area of 94mm x 18mm, which displays 2 lines of text, with 24 characters per line.

The screen incorporates electro-luminescent backlighting with on/off control via the front panel soft function switch. This switch also provides for the selection of programs and interrogation of charge and discharge data.

**13. Safety:**  
Designed to comply with electrical safety standard BS EN 60065.  
NOTE: U.K. mains leads are fitted with a 1" fuse to BS1362 rated 5A as standard.

**14. European Union Directives:**  
Complies with the following EU Directives:  

- ▶ EMC Directive 89/336/EU.
- ▶ Low Voltage Directive 73/23/EU.

**15. Operating Temperature Range:**  
0°C to 40°C (+32°F to +104°F).

**16. Overall Dimensions:**  
**9792 AR124PLD & 9794 AR122PL:**  
81.5mm high (90mm with feet extended) x 168mm wide x 240mm deep.  
(3.2", 3.5" with feet extended, x 6.6" x 9.5" approx.).

**9793 AR124NPD:**  
78mm high x 142mm wide x 240mm deep. (3.1" x 5.6" x 9.5" approx.).

**17. Weight:**  
**9792 AR124PLD:** 1.23kg (2.70lbs approx.).  
**9793 AR124NPD:** 1.07kg (2.35lbs approx.).  
**9794 AR122PL:** 1.04kg (2.30lbs approx.).

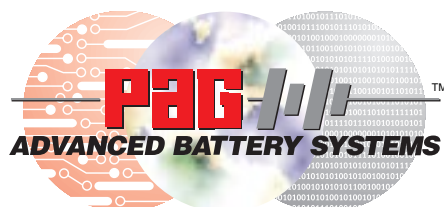
**18. Typical Battery Charging Times:**

Battery Capacity	Charge Time 2A	Charge Time 3A	Charge Time 4A
1Ah	30mins	20mins	15mins
2Ah	60mins	45mins	30mins
4Ah	120mins	90mins	60mins
5Ah	150mins	105mins	75mins
7Ah	-	150mins	105mins
10Ah	-	-	150mins

*These times are approximate only, and assume the battery is fully discharged. Charging times will be less if the battery is already partially charged.*

*NOTE: PAG intelligent batteries communicate with the charger, and automatically optimise the charging output (independently of the manual selection) to enhance performance and safety. The above charging times do not apply to these batteries.*

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