

# iCHARGE

## PMR DESKTOP CHARGER CONDITIONERS



POSITIVE PROBLEM SOLVING **+ =**

The iCHARGE™ range provides the world's simplest and most effective solution to charging and conditioning PMR batteries.

The unique Dynamic Electrochemical Waveform™ technology actually responds to the chemical state of the battery. This means that the units deliver an individually tailored charging and conditioning cycle for the unique needs of each battery. The benefit of DEW™ technology is its ability to keep batteries in a charge-receptive state and to precisely terminate the charge. This prevents overcharging and overheating, the two main contributors to early battery failure.

- + Conditions Batteries During Charge
- + Interchangeable Adapters
- + Tri-Chemistry Base Units
- + Extended Battery Life
- + No Charging Rules

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## FURTHER DETAILS

Manufactured by Advanced Charger Technology users enjoy very fast charge times. For example a 1200mAh Ni-Cd battery is typically charged from 'empty' to full capacity in 35 minutes. ACT's unique patented technology conditions the battery during charging, without the requirement of a deep discharge. This benefit eliminates the need for time-consuming and expensive battery maintenance programs.

ACT chargers also reduce the parasitic reactions in batteries that cause memory effect. This means that your new batteries will perform like new for a very long time and your used batteries will be restored to maximum available capacity. Units can be specified with a mix of adapters to reflect the diversity of batteries found in many PMR fleets. A high degree of future proofing is provided.

The base units are tri-chemistry allowing a mixture of Ni-Cd, Ni-MH and Li-ion batteries to be charged on the one unit. Interchangeable adapters support batteries used in over 100 different PMR handsets. This ensures that when new handsets are adopted the ACT charger-conditioners can be easily upgraded.

The optional iGAUGE™ is designed for the 6 bay units to provide an analysis function. When a bay is fitted with the iGAUGE™ the capacity of a battery can be accurately checked. The reACTivate function provides an additional deep conditioning function allowing many batteries that have been used and abused on OEM chargers to be recovered.

With over a million daily users throughout the world a wealth of field data along with independent testimonials shows that the iCHARGE range is the charger of choice.

### SELECTION TABLE

| Part Number | No of Charging Positions | Input Voltage | Maximum Charge Current | Dimensions (W × D × H) |
|-------------|--------------------------|---------------|------------------------|------------------------|
| i20         | Single Bay               | 115 / 230VAC  | 2.4A                   | 120 × 210 × 55mm       |
| i80         | 6 Bay                    | 115 / 230VAC  | 2.4A                   | 460 × 280 × 170mm      |
| i85         | 6 Bay                    | 115 / 230VAC  | 2.4A                   | 460 × 280 × 170mm      |

### OPTIONS

| CODE    | DESCRIPTION                                                                                                                                                                                                                                              |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| /IRR    | Rack that fits to 6 bay units [i80/i85] to house handsets while batteries are being charged.                                                                                                                                                             |
| /AI-5CV | Intelligent capacity display unit that fits underneath existing adapter plates and delivers precise digital reading (mAh) on your battery's capacity. Also features a deep conditioning function that provides three complete discharge/recharge cycles. |

## TECHNICAL DATA

|                                | i20                                                     | i80       | i85       |
|--------------------------------|---------------------------------------------------------|-----------|-----------|
| Number of Charging Bays        | 1                                                       | 6         | 6         |
| Battery Chemistries Supported  | Ni-Cd, Ni-MH, Li-ion                                    |           |           |
| Battery Ranges                 | 4 - 10 cell Ni-Cd, 4 - 10 cell Ni-MH, 1 - 3 cell Li-ion |           |           |
| Ni-Cd Battery Charge Time      | Typically 30mins/AH                                     |           |           |
| Ni-MH Battery Charge Time      | Typically 60mins/AH                                     |           |           |
| Li-ion Battery Charge Time     | Typically 120mins/AH                                    |           |           |
| Maximum Charge Current         | 2.4A                                                    |           |           |
| Maximum Depolarisation Current | 12A                                                     |           |           |
| Humidity                       | 95% non-condensing                                      |           |           |
| Operating Temperature          | 0 - 40°C                                                |           |           |
| Input Voltage                  | 115/230VAC, 50/60Hz                                     |           |           |
| Accommodates iGAUGE™           | Yes but with overhang                                   | Yes       | Yes       |
| Built in Maintainor Function   | No                                                      | No        | Yes       |
| Unit Weight                    | 0.3kg                                                   | 6.5kg     | 6.5kg     |
| Construction                   | Plastic                                                 | Aluminium | Aluminium |
| Approvals                      | UL, CE, CSA                                             |           |           |

## TWO WAY RADIOS SUPPORTED

The base units are fitted with interchangeable adapters to suit the batteries your organisation uses. All the popular manufacturers are supported. Simply tell us your handset code and your battery chemistry.

- |                             |                  |                        |                      |
|-----------------------------|------------------|------------------------|----------------------|
| <b>+ Motorola</b>           | <b>+ Kenwood</b> | <b>+ Simoco/Sepura</b> | <b>+ Tait</b>        |
| <b>+ Midland/EF Johnson</b> | <b>+ Vertex</b>  | <b>+ Yaesu/Vertex</b>  | <b>+ AEG</b>         |
| <b>+ Marconi/Puma/EADS</b>  | <b>+ Bosch</b>   | <b>+ Maxon</b>         | <b>+ IDEN/Nextel</b> |
| <b>+ Bendix King</b>        | <b>+ Niros</b>   | <b>+ ICOM</b>          | <b>+ Hytera</b>      |

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.



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