

**12027-0000-01****HAND CRANK  
GENERATOR SYSTEM**

The Harris Hand Crank Generator System is designed for charging batteries in locations where no other source of AC or DC power is available. The system is rugged, environmentally resistant, and suitable for use in a field environment. It is designed to charge 24-volt BB-390 Nickel Metal Hydride (NiMH), BB-490 Lead Acid, or BB-590 Nickel Cadmium (NiCd) rechargeable batteries. The generator is designed to be human operated by hand cranking handles in a bicycle fashion. The crank handles easily fold against the generator body to provide a small size for transport. The unit may be strapped to a tree for support using the strap and ratchet clamp included. An optional foot stand is also available which permits operating the generator while standing.

The system consists of two main units, the 12027-0001-01 Hand Crank Generator and the 12027-0002-01 Foot Stand. The 12027-0001-01 consists of the generator, tree mount kit, operator instruction card, cable with pigtail leads to connect the generator to a 12-volt load, and a second cable to allow the generator to plug into up to two of the above type batteries simultaneously. The system is designed to charge the 24-volt batteries as individual 12-volt batteries for optimum balance of charge. The generator includes indicator lamps to inform the operator of proper operation. All items are contained in a carrying case that has a shoulder strap and is suitable for field transport by an individual operator. The 12027-0002-01 optional foot stand consists of a two-piece collapsible monopole stand that will support the generator to chest height and permit operation of the generator while the operator is standing. The foot stand may be used if no suitable tree is available to support the generator.



## Specifications for the 12027-0000-01

### Electrical

|                                 |  |
|---------------------------------|--|
| <b>Peak Output Power</b>        | 60 W peak @ 70 rpm   |
| <b>Output Voltage</b>           | 15.7 VDC or 31.8 VDC depending upon cable used   |
| <b>Indicator Interpretation</b> | Four indicator lights signal the generator's electrical performance. LEDs will indicate as follows when illuminated:<br><b>First LED:</b> Volts: a green light indicates an output is being produced. A red light indicates the battery connection is reversed<br><b>Second LED:</b> Red indicates charging 12 v battery<br><b>Third LED:</b> +24v – red indicates charging 24v battery<br><b>Fourth LED:</b> +24v – red indicates charging 24v battery.<br>The third and fourth LEDs lit at the same time indicates dual batteries are being charged. |

|               |  |
|---------------|--|
| <b>Cables</b> | Two provided.<br><b>Cable One</b> is about 1.6 meters long and has pigtail leads to connect to a 12-volt load.<br><b>Cable Two</b> is about 1.8 meters long and has a y output with two connectors to connect to up to two BB-390, 490, or 590 batteries |
|---------------|--|

### Mechanical

|   |   |
|---|---|
| <b>Dimensions of Hand Crank Generator</b>               | Approximately 15 x 11 x 18 cm plus crank handles                      |
| <b>Dimensions of Carrying Case</b>                      | 29.5 x 19 x 19 cm   |
| <b>Weight of Generator w/ tree mount and two cables</b> | 5.5 kg  |
| <b>Dimensions of foot stand</b>                         | 21 W x 2.5 H x 22.5 L cm in transport mode. 105 cm tall when deployed |
| <b>Weight of foot stand</b>                             | 0.57 kg   |

### Environmental

|                                    |                                |
|------------------------------------|--------------------------------|
| <b>Operating Temperature Range</b> | -40 degrees C to +55 degrees C |
| <b>Storage Temperature Range</b>   | -40 degrees C to +55 degrees C |

### Components

|                      |  |
|----------------------|--|
| <b>12027-0000-01</b> | Hand Crank Generator System – includes 12027-0001 and 10227-0002 |
| <b>12027-0001-01</b> | Hand Crank Generator   |
| <b>12027-0002-01</b> | Foot Stand   |



Falcon and Citadel are registered trademark of Harris Corporation  
Specifications are subject to change without notice.



RF Communications Division | 1680 University Avenue | Rochester, NY USA 14610  
[www.harris.com](http://www.harris.com) 1-585-244-5830