

## M12 Power Supply and Battery Pack

### FP-PS-HD-12 Universal Power Supply for 100 – 240 Volts AC

This Power Supply can be used worldwide with all laser modules having a M12 connector. It is not to be used with other equipment than specified.

#### FP-PS-HD-12 Power Supply

|                       |  |
|-----------------------|--|
| Content of delivery   | Power Supply, 4x plug adapter (Europe, UK, USA, Japan) |
| Operating voltage     | 100 – 240 VAC / 50 – 60 Hz                             |
| Output voltage        | 12 VDC   |
| Output current        | 10 mA – 1200 mA  |
| Cable length          | 1.8 m, UL 1185   |
| Connector             | M12 female (Pin 1: + / Pin 3: GND)                     |
| Operating temperature | 0 °C to 40 °C  |



### M12-5V-NiMH: Battery Pack for Mobile Applications

This battery pack power supply can be used in mobile applications with all laser modules having a M12 connector. It is not to be used with other equipment than specified. The battery pack and the Charger are designed for indoor use only.

#### M12-5V-NiMH battery pack

|                       |   |
|-----------------------|---|
| Content of delivery   | battery pack, charger with 4x plug adapter (Europe, UK, USA), M12 cable |
| Input voltage         | 100 – 240 VAC / 50 – 60 Hz  |
| Output voltage        | 5 VDC   |
| Capacity              | 2400 mAh  |
| Operating temperature | -20 °C to + 60 °C   |
| Connector             | M12 (Pin 1: + / Pin 3: GND)   |
| Cable length          | 2 m   |
| Dimensions            | 80 mm x 75 mm x 30 mm   |



### M12-10V-NiMH: Battery Pack for 10 V Applications

This battery pack power supply can be used in mobile applications with all laser modules having a M12 connector that need a 10 V supply. It is not to be used with other equipment than specified. The battery pack and the Charger are designed for indoor use only.

#### M12-10V-NiMH battery pack

|                       |   |
|-----------------------|---|
| Content of delivery   | battery pack, charger with 4x plug adapter (Europe, UK, USA), M12 cable |
| Input voltage         | 100 – 240 VAC / 50 – 60 Hz  |
| Output voltage        | 10 VDC  |
| Capacity              | 800 mAh   |
| Operating temperature | -20 °C to + 60 °C   |
| Connector             | M12 (Pin 1: + / Pin 3: GND)   |
| Cable length          | 2 m   |
| Dimensions            | 80 mm x 75 mm x 35 mm   |



### M12-USB-12V Connecting Cable

The M12 USB cable creates a connection between a laser module and any USB power supply. This can be a commercially available power bank, a USB power supply or the USB port of a computer. In the cable, the USB standard voltage is transformed from 5 V to 12 V, so that all laser modules that require a voltage of at least 10 V can also be operated.



#### Technical Data

|                       |   |
|-----------------------|---|
| Connection laser side | M12 socket female, 4-pin,<br>12 V (+/- 0.5 V), max. 600 mA,<br>Pin 1: +<br>Pin 3: GND |
| USB connection        | USB-A, 5 V, max. 2.0 A  |
| Cable length          | 1.5 m   |

Example Applications

