

SCHIEDERWERK



MPSD 60-40 DC

Medical power supply and
distribution system for
demanding mobile applications

A DIVISION OF *LEGRIS* INDUSTRIES

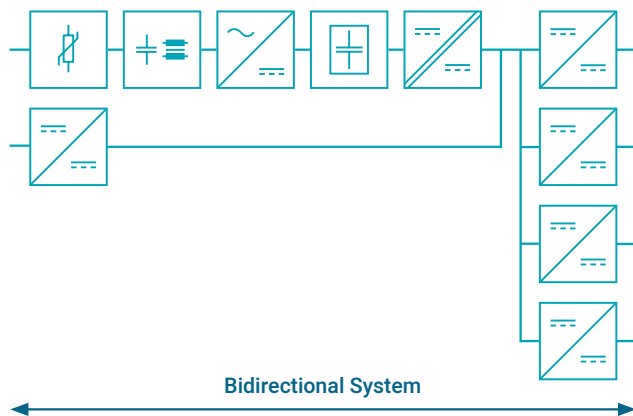
MPSD 60-40 DC

Power, where it's needed most

The medical power supply and distribution system MPSD 60-40 DC has been specifically developed for demanding applications in medical environments. It ensures a safe, flexible, efficient, and uninterrupted power supply – precisely where it is needed most. Whether in ambulances, mobile intensive care units, or field hospitals, the system reliably powers ventilators, monitoring systems, infusion pumps, and other critical medical devices at various supply voltages – simultaneously and without interruption.



Block Diagram



Key Features

- Multiple supply options on both AC (mains) and DC (e.g., solar panels) levels
- Battery support with charge and discharge functionality
- Multiple low-voltage outputs up to 60 V DC, Software adjustable
- Total power output: 1.800 W
- Robust housing with airflow openings for system integration
- MODBUS or CAN software interface for communication and control
- Individual control of all interfaces (enable/disable, priority settings)
- Comprehensive monitoring of voltage, current, power, temperature, and error status
- Battery can be replaced during operation (Hot Swap)
- Intelligent Power Management

Technical Data

AC Grid in	100–230 V ± 10 %; 50/60 Hz; 1.800 W
DC Bus in	Solar Panel or misc. up to 60 V / 40 A
Power out	4x up to 60 V / 40 A (total output power depending on input power)
System efficiency (Battery to Power out)	> 97 %
System efficiency (Grid to Power out)	> 94 %
Communication interface out	MODBUS / CAN
Isolation primary to secondary	2 MOPP

Isolation primary to PE	1 MOPP
Ambient temperature	-20°C to + 70°C (up to 50°C without derating)
Dimensions of max. configuration	416 x 345 x 265 mm 16.4 x 13.6 x 10.4 inch
Weight	< 20 kg < 40 lbs
Electrical terminations	AC inlet socket for non-heating apparatus / Low voltage Phoenix Clamp LPT series
Safety Standards	EN 62368-1 / IEC 60601
EMC conformity	EN 60601-1 / EN 61000-3-2