

Medical Mobile Power



Mobile Nurse Station • Medication Cart • Computer Cart



MediPower™ is a fully integrated UL60601-1 Mobile Medical Power System.

The new MediPower™ medical power system provides 175VA of output with a peak power of 250VA. The efficient design provides the necessary power to support medical equipment, while providing the proper overload capability required by devices such as printers.

MediPower™ series provide a true sine wave AC output of 120V, with a universal AC input at 90Vac to 264Vac enabling world wide support with a single unit. It can seamlessly change from an AC outlet to battery operation without the need for transfer switch. This proven topology allows uninterrupted AC power at the output irrespective of any power disturbance at the input.

MediPower™ delivers a 30% lighter solution designed to sustain the rough hospital environment. The integrated system design provides all the necessary features to add extended battery life to mobile medical devices. Its flexible design makes it configurable to customer specific technologies without added expenses.

TDI's medical power solutions have been used on medical carts for over a decade. MediPower™ incorporates reliable and safe methodologies with new product design innovation.

Features:

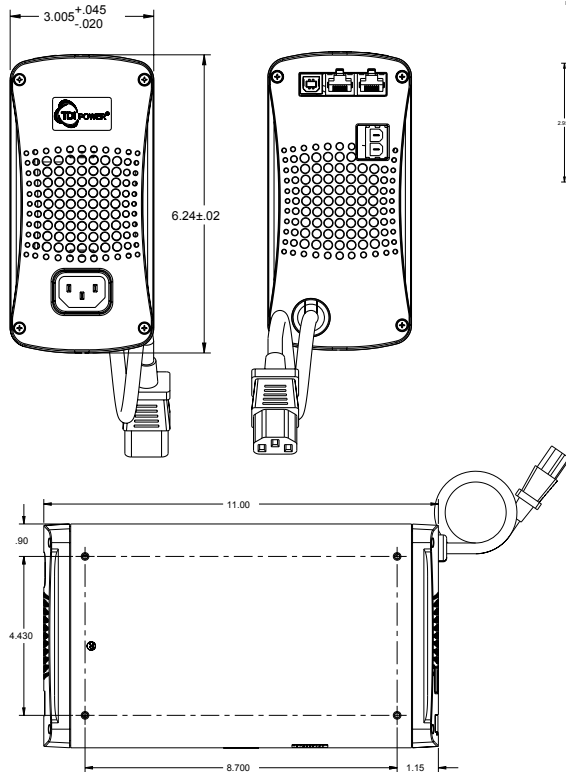
- Fully Integrated Power System, Battery, LCD UI
- Universal Input: 90VAC – 264VAC
- Rapid recharge
- Simultaneously Charges Battery & Supports Load
- No Transfer Switch eliminates mechanical POF
- Continuous On-line Operation
- Light Weight Integrated Power Unit < 4.5 lbs
- Standard API Available for SW Integration
- Supports Smart Battery: SMB & ModBus
- Easily integrates to medical carts and rolling stands
- Custom Solutions Available



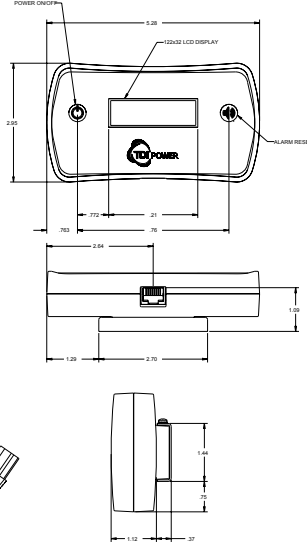
MEDIPOWER™

Fully Integrated Power System and Battery for Medical Carts

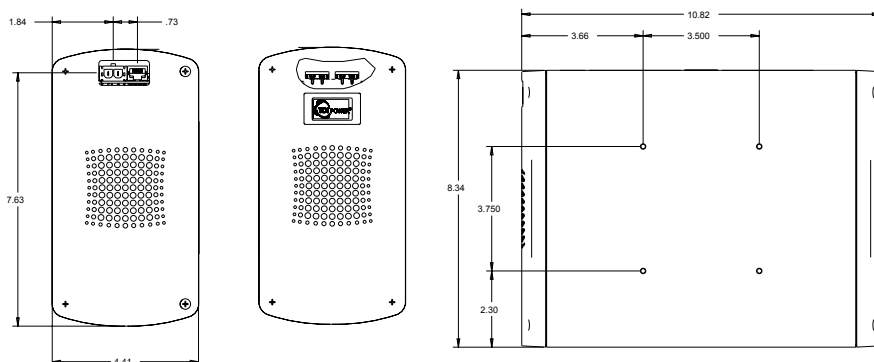
MEDIPOWER™ - SPS4450-3



RUI - SPS5974



BATTERY - SPS5973



Parameter	MediPower™
Input	
AC Mains Connection	90VAC - 264 VAC
AC Frequency	47-63 Hz
Max AC Input Current	3A
Power Factor \ Harmonic Correction	Compliant to IEC61000-3-2
Inrush Current (Typ)	40Apk
AC Connection Type	Panel mount IEC 60320, C14
Input Protection	
Surge Protection	Compliant to IEC 61000-4-5
Input Over-Current	Y
AC Output	
AC (Pure Sine Wave)	120 VAC
AC Frequency	57-63 Hz
AC Output Current	1.45A
Power (continuous)	175 VA
Power (Peak)	250 VA
Line regulation (from AC or DC)	<2%
Load regulation	< 3%
AC Connection Type	IEC 60320 - C13
AC Connection Cord	10'
Total Harmonic Distortion	< 3% THD
AC Output Protection	
Max AC Current	1.87A
Power Limit, Short Circuit	Y
Battery Source	
DC Voltage	24V nominal
DC Current (max)	10A charge/ 20A discharge
Type	SLA & Li-Ion
Charge & Supply Load	Simultaneously
Typical Charge Time	2-3Hrs
Environmental	
Operating Temperature	0°C to +35°C
Humidity (non-condensing)	0% - 95%
Storage Temperature	-10°C to +50°C
Over Temperature Protection	Y
Physical	
Construction	Enclosed Rugged Aluminum
Power Supply Dimensions (D x H x W)	11.0"x3.0"x6.25" (279x76x159mm)
Battery Dimensions (D x H x W)	10.85"x8.35"x4.4" (275x212x112mm)
Power Supply Weight	< 4.5 lb (2.1Kg)
Battery Weight	15lbs (6.8Kgs)
Cooling	Temp. & Speed Controlled Fan
Safety	
Isolation Level	4Kv
Marking	UL \ CE
Safety & EMC Standard	UL/cUL 60601-1/IEC 60601-1 UL/cUL 60950-1 / IEC 60950-1
RoHS/WEEE	Compliant
Communication	
USB	Available
Battery	Smart Battery Support
BUS	SMBus, Modbus

Effortless Charging!



Mobile Medical Carts with NO CORDS!

MEDIPARC™ converts mobile medical solutions into cord-free chargeable devices. It eliminates the use of power cords, making the charging of mobile medical equipment almost effortless.

The simple act of pushing a cart, or a rolling stand against the wall activates the charging process without the use of a power cord. The wall docking system was designed to comply with UL1363A. It improves the hospital workflow by removing the need to bend over and manually plug a cord into the wall. MediParc™ can be easily integrated into your existing solution and it reduces hospital cost of ownership by increasing battery life and reducing downtime.

This product is the result of extensive market research to understand the use of Medical Carts in healthcare industry. Speaking with nurses and doctors, we learned that not just Medical Carts, but Vital Sign Monitors, Ultrasound Machines, and other medical devices require a more user friendly solution for battery charging.

MediParc™ is a safe and reliable solution, taking advantage of robust design, manufacturing, and test processes built on years of power system design for demanding markets.

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