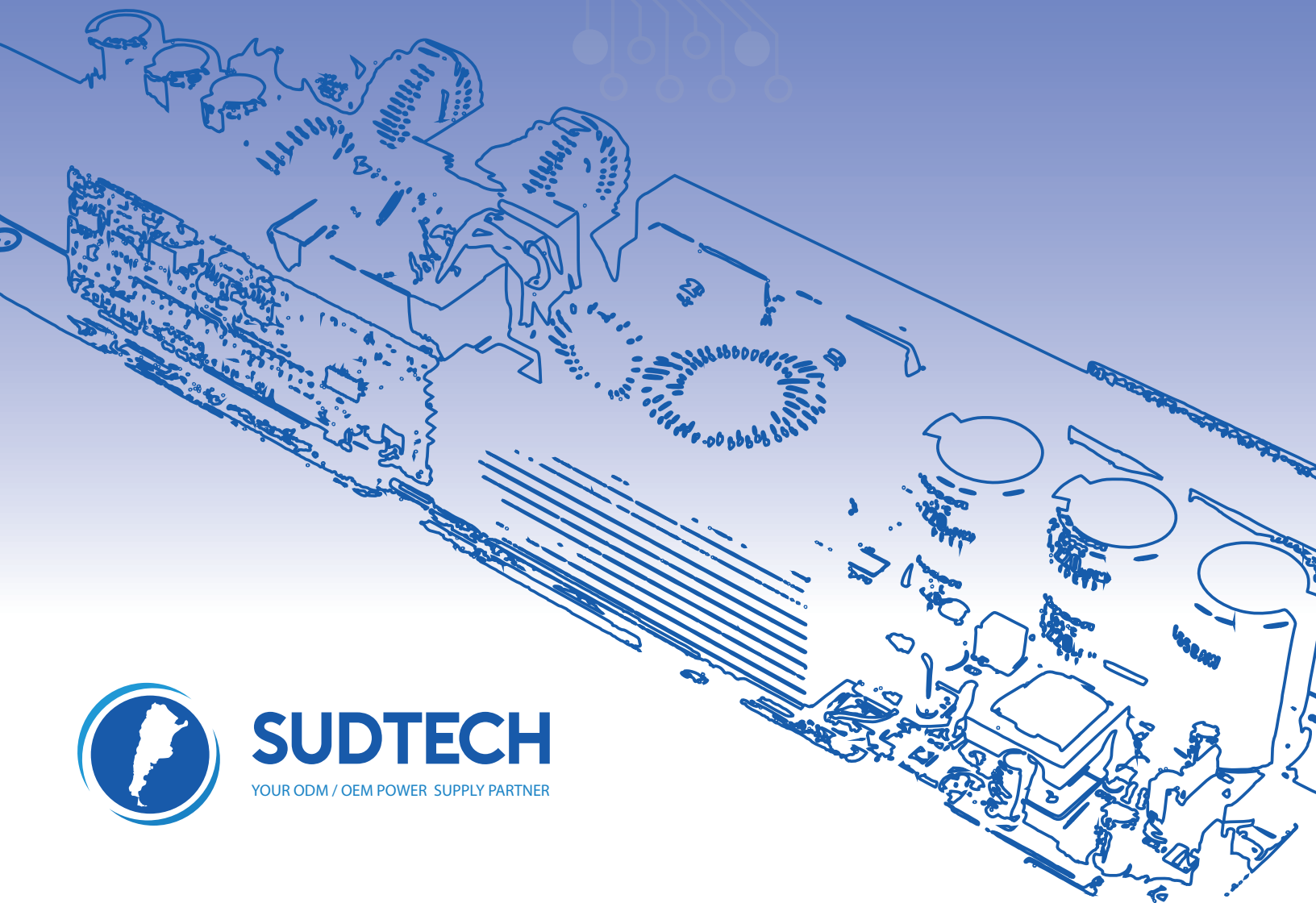
# POWER SUPPLY CAPABILITIES

- Low design & development costs
- Low risk, proven technology leader
- World class design and manufacturing
- Rapid time-to-market
- Dedicated engineering support
- Low-cost / high-volume manufacturing



SUDTECH

YOUR ODM / OEM POWER SUPPLY PARTNER

# Your Source for the Uncommon Power Supply

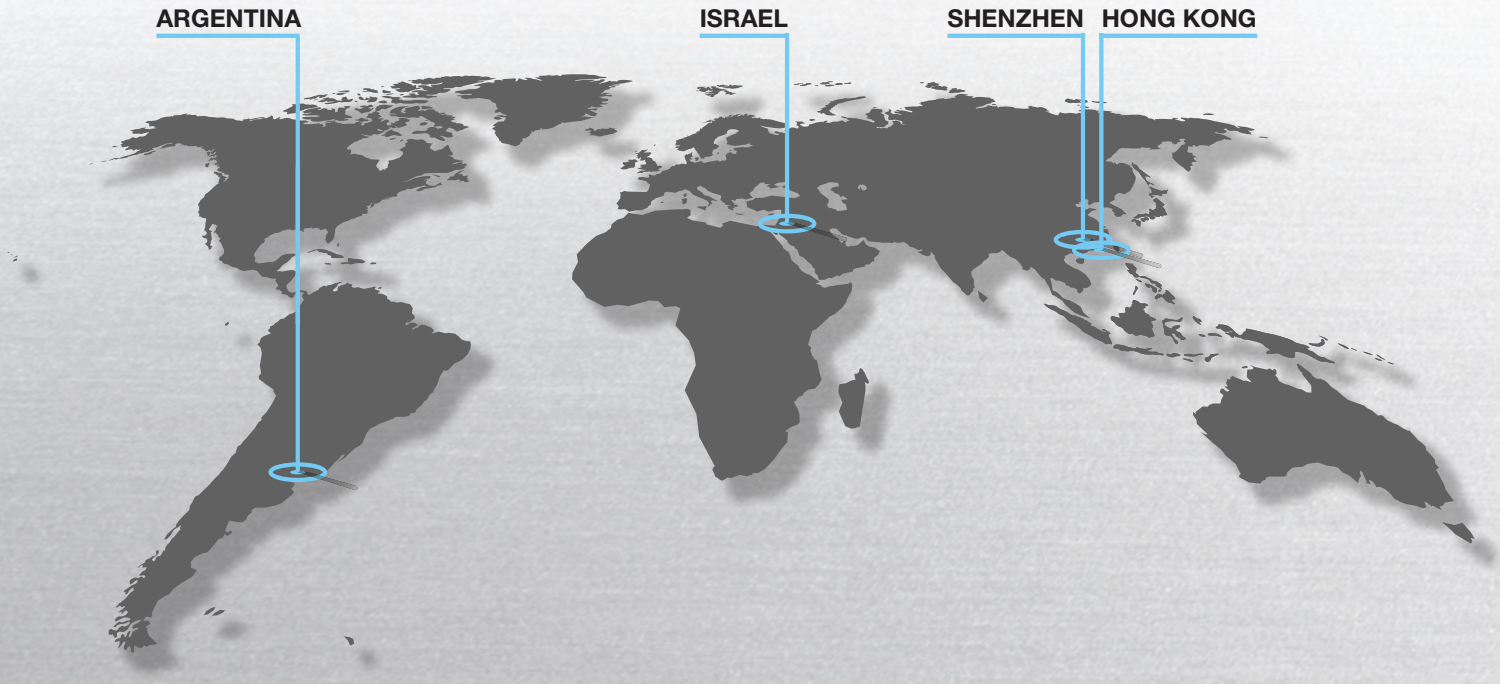
Sudtech Ltd. is an OEM / ODM power supply manufacturer that delivers a diverse range of power products. Managed by seasoned power supply engineers, Sudtech is poised to rapidly deliver power supply solutions to meet your power requirements and improve system-level integration and performance.

Established in 2001 with Headquarters in Hong Kong, Sudtech offers dedicated design, prototype, qualification and manufacturing for medium~high volume applications. Building power supplies specifically to fit each application, we can optimize the balance between price and performance to deliver the most cost-effective solution.

Sudtech's power design capabilities include:

- Wall Mount and Desktop Products - custom voltages, connectors, isolation, insulation, packaging . . .
- Open Frame Products - footprints, connectors, harnessing, status, control, optimized thermals . .. .
- Battery Charging Products - battery interface, UPS operation, speed or float charging, and more. . .
- LED Power Suppliers - 90~305VAC, metal or plastic enclosures, dimming control, IP protection . . .
- Value Added - metal or plastic enclosures, EMI filters, harnessing, connectorization, control circuitry . . .

Sudtech can design your power supply from scratch or adapt from an existing design that can be tailored electrically, thermally and mechanically to best fit your application.  Sudtech is an ISO 9001:2015 qualified company to ensure the quality and consistency of its products.



# Capabilities

### Engineering
- 12 Electrical Engineers on staff
- 30 years of power supply experience
- Advanced Communication Tools

### Engineering Specialties
- High-Density / High-Efficiency Technologies (Flyback, Forward LLC Half-Bridge, Full-Bridge)
- Analog Status & Control
- I²C / PMBus / RS232 Interface
- Battery Management

### Mechanical Engineering
- 3D Modeling
- Thermal Analysis
- Plastic / Injection Molding
- Sheet Metal / Enclosures
- Blind-Mate / Hot-Swap
- Back Plane

### Compliance Engineering
- In-System Functional Test
- Turnkey EMI / EMC Certification
- Turnkey Safety Certification
- IP / NEBS / ETSI Compliance
- HALT / HASS Integrity Testing

### Design Tools:
- Solidworks
- PADS Power PCB
- OrCAD Schematic Capture
- Ansys Thermal Modeling

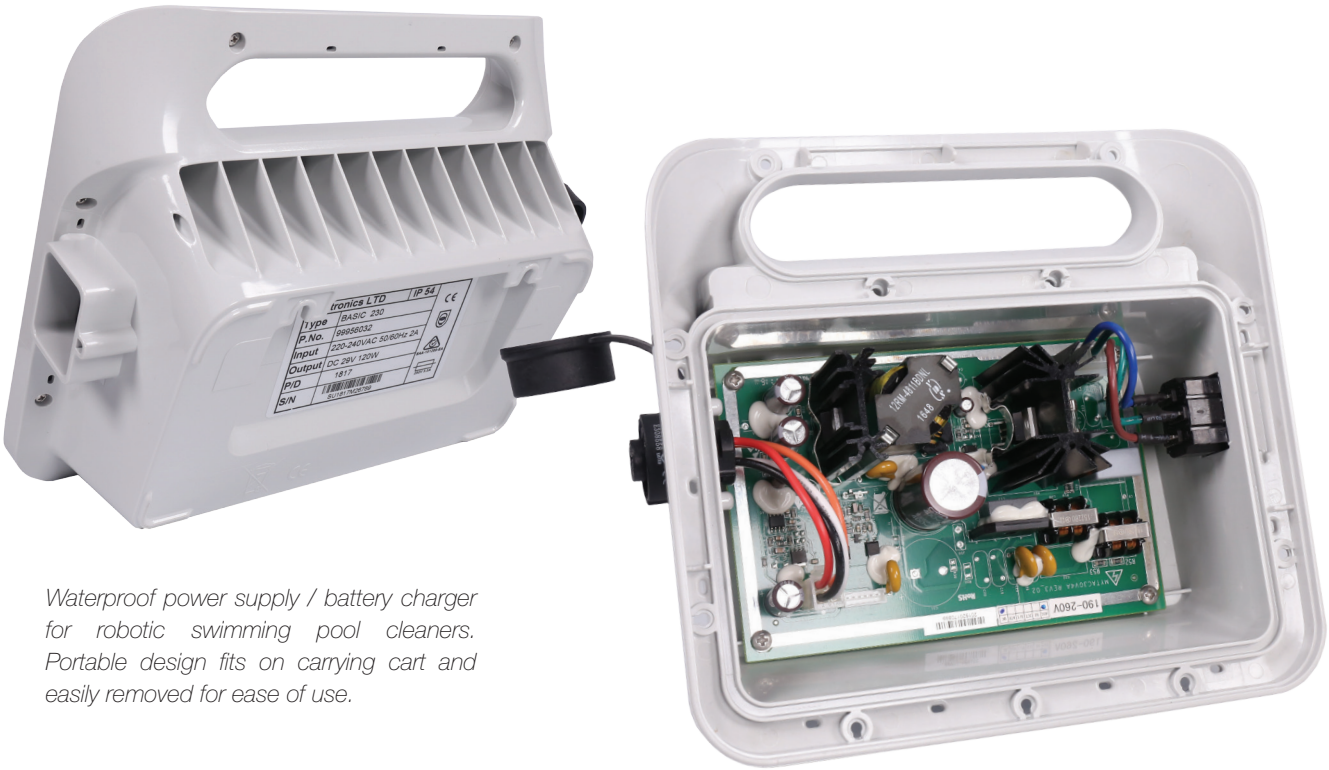
### Prototyping
- Rapid Manufacturing
- Document Manufacturing Process
- Improved Manufacturability
- Design Verification

### Manufacturing Equipment:
- Wave Solder Machine
- Reflow Solder Machine
- SMT Machine
- AI Machine
- Manual insertion production line
- Potting Machine

### Facilities
- 93k sq. ft. Manufacturing Facility
- 1/3 capacity (400k pcs per month)

### Test Equipment
- Hi-pot
- ATE
- Burn-in chambers
- PCB AOI
- Power Meter
- Electrical Load
- Oscilloscope

### Qualifications
- ISO 9001:2015
- UL Recognized
- TUV Recognized
- CCC Recognized
- CSA Recognized
- KC Recognized



*Waterproof power supply / battery charger for robotic swimming pool cleaners. Portable design fits on carrying cart and easily removed for ease of use.*

## External Power Supplies (Wall Mounts / Desktops)

*Multiple output DC connectors with covers*

*68 watt triple output with three isolated outputs for powering multiple satellite TV components*

*10 watt / 5.3V power supply with extended temperature range for high reliability performance of a home security device*

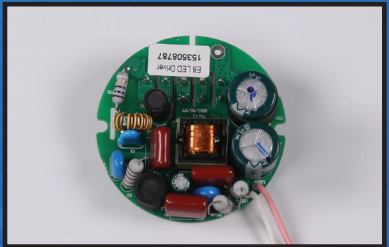
*30 watt wall mount adapter with Level VI efficiencies and custom output voltage*

*15 watt wall mount adapter with Level VI efficiencies and custom output voltage*

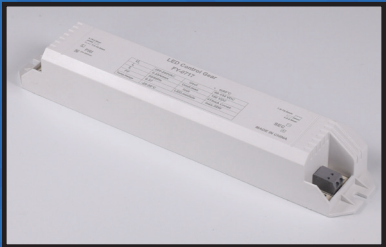
## LED Lighting Power Solutions

*Branded LED driver for luminaire manufacturer*

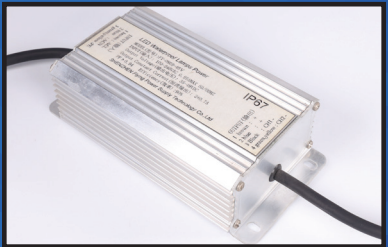
*60 watts constant current 30V @ 2 A output 94% efficiency*



*8 watt LED driver for E8 light bulb manufacturer integral dimming control with 90% efficiency*



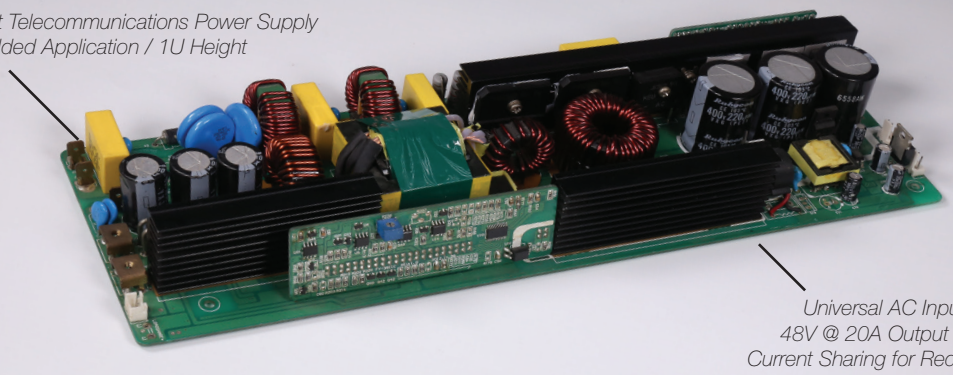
*56 watt LED driver designed for indoor applications 90~134V output / constant current with 94% efficiency*



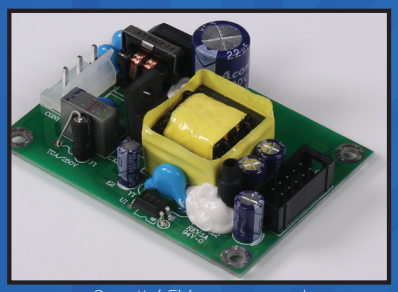

*100 watt LED driver for street lighting application active power factor correction IP67 rated*

# Open-Frame / Embedded Power Supplies

*1000 Watt Telecommunications Power Supply*
*for Embedded Application / 1U Height*

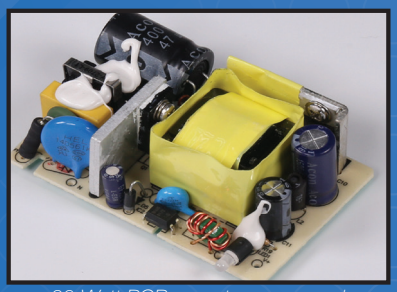


*Universal AC Input with Active PFC*
*48V @ 20A Output @ 92% efficiency*
*Current Sharing for Redundant Operation*

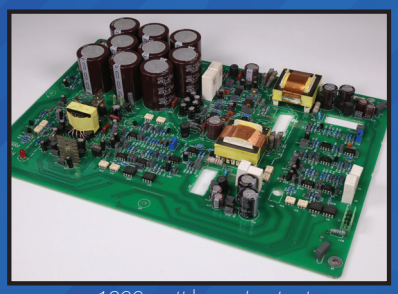


*9 watt / 5V power supply*
*drives system & battery charging circuit*
*for mobile weight scale application*

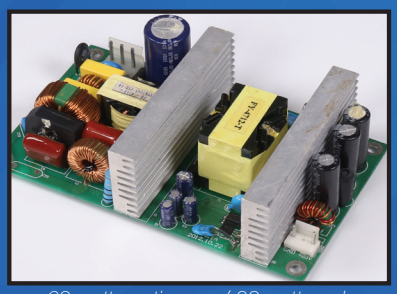
*20 watt / 12V power supply*
*with 450% peak load capability*
*EMI enhanced for compatibility with*
*wireless home security circuits*



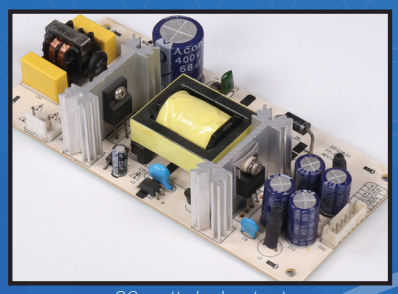
*20 Watt PCB mount power supply*
*for Cable Box Application*
*ErP Ready and Level VI efficiencies*
*with reduced EMI signature*



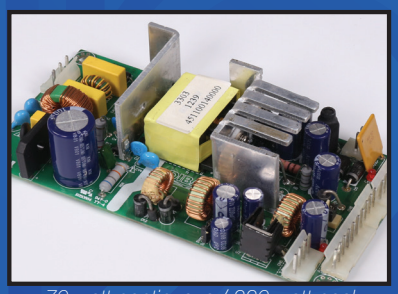
*1200 watt | quad output*
*railway control equipment*
*80% efficiency and*
*EN50155 approved*



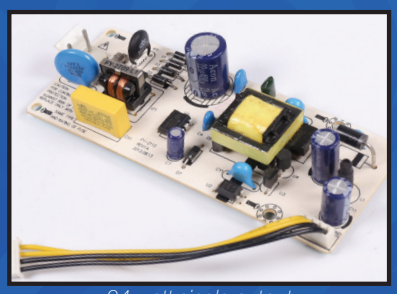
*69 watt continuous / 28 watt peak*
*for supermarket POS system*
*with integrated scale & thermal printer*



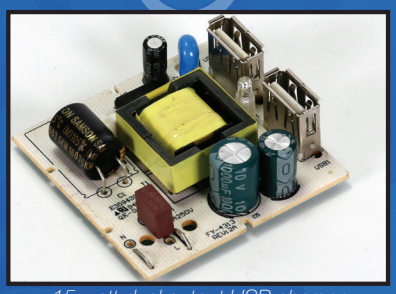
*26 watt dual output*
*satellite TV receiver*
*custom voltages*



*70 watt continuous / 220 watt peak*
*quad output power supply with*
*battery management circuitry*
*for supermarket POS system*
*including integrated scale & thermal printer*

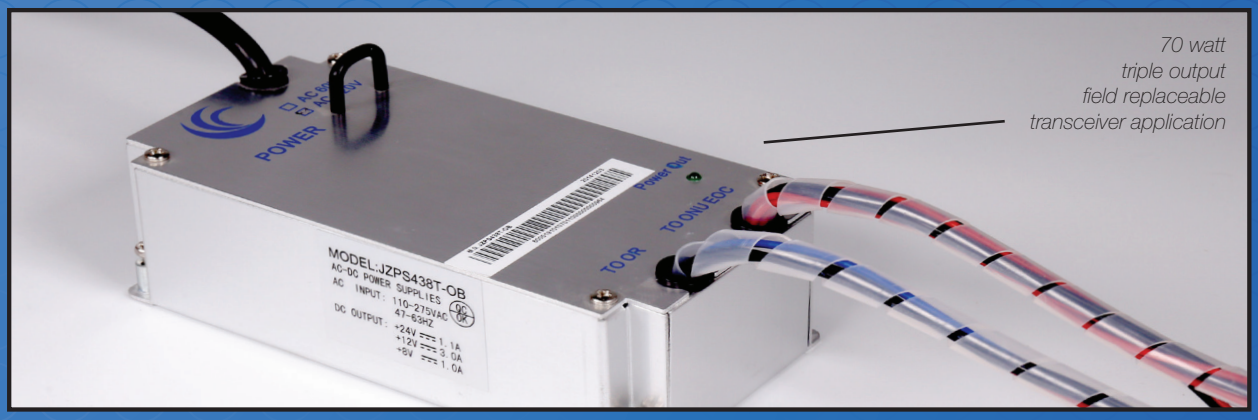


*24 watt single output*
*satellite TV receiver*
*small footprint*
*affixed wire harness*



*15 watt dual output USB charger*
*for AC power strip*
*universal AC input and*
*78% efficiency*

# Caged / Enclosed Power Supplies

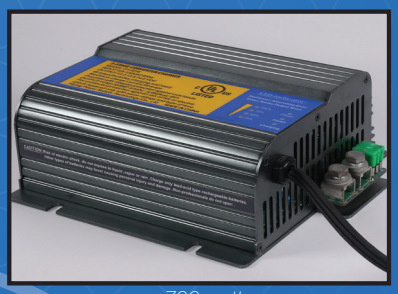



*70 watt*
*triple output*
*field replaceable*
*transceiver application*

*84 watt continuous / 300 watt peak*
*dual output power supply*
*for supermarket POS system*
*with integrated scale & thermal printer*

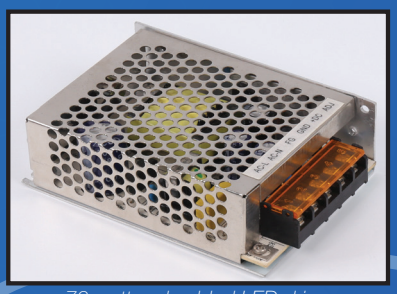
*120 watt*
*electric wheel chair*
*EAD / acid battery charger*

*168 watt 14V power supply*
*to power security system*
*with battery managemet circuits*
*full load operation up to 70°C*

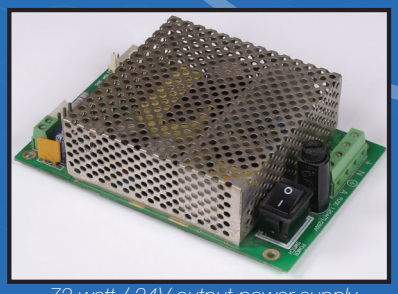


*720 watt*
*recreational vehicle*
*EAD / acid battery charger*

*1200 watt*
*recreational vehicle*
*EAD / acid battery charger*



*72 watt embedded LED driver*
*universal AC input with PFC*
*12V constant current operation*



*72 watt / 24V output power supply*
*for closed circuit television application*
*with On/Off switch and*
*field replaceable fuse*

*10 watt dual output USB charger*
*for mounting inside an AC socket*
*78% efficient design inside a snap*
*together injection molded case*

*40 watt triple output DC/DC converter*
*30~60$V_{IN}$ with 5 / 3.45 / 2.25 $V_{OUT}$*
*85% efficiency with integral heatsink for*
*extended operating temperature*

**Email:sales@sudtech.com**

**Hong Kong Headquarters**

Room 17a, Unit 6S-V
6/f Valiant Industrial Centre,
2-12 Au Pui Wan St,
Fo Tan, Shatin,
New Territories
Hong Kong

Tel: +85255262922

**China**

Room 21G, ShenRong Building,
1045# FuQiang Road,
Futian District, Shenzhen City,
Guangdong Province,
The Peoples Republic of China.

Tel: +86-755-8825-0474

**Israel:**

5/f, Entrance B
Habarzel 34,
Tel Aviv,
Israel 6971052

Tel:+972-3-644-4747

**Americas:**

Av. Angel Gallardo 63
Floor 3 / Flat 12(1405) Cidad
Buenos Ares
Argentina

Tel: +54 9 116 125 0905