

PROGRAMMABLE BIDIRECTIONAL DC POWER SUPPLY

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PIPL-80300DCPSP

PROGRAMMABLE BIDIRECTIONAL DC POWER SUPPLY

❖ FEATURES:

- **SMPS Based Design.**
- Output V & I Adjustable from 0 to Specified Range.
- Protection: Short circuit / Over load / Over voltage.
- High efficiency, long life and high reliability.
- Miniature size.
- Bidirectional and regenerative functionality.
- **Battery Charge and Discharge facility.**

❖ SPECIFICATION:

| | MODEL NO | PIPL-80300DCPSP |
|--------------|---|---|
| Output | DC VOLTAGE ADJ. RANGE | 0 TO 80VDC |
| | DC CURRENT ADJ. RANGE | 0 TO 300AMP |
| | RATED POWER | 10000W |
| | LINE REGULATION | Voltage: ≤0.01%FS, Current: ≤0.05%FS |
| | LOAD REGULATION | Voltage: ≤0.02%FS, Current: ≤0.05%FS |
| | Setup Resolution | Voltage: 0.001 V, Current: 0.01 A |
| | Readback Resolution | Voltage: 0.001 V, Current: 0.01 A |
| | Setting Accuracy | Voltage: ≤0.02% + 0.02%FS, Current: ≤0.1% + 0.1%FS |
| | Readback Accuracy | Voltage: ≤0.02% + 0.02%FS, Current: ≤0.1% + 0.1%FS |
| | Setting Temp. Coefficient | Voltage: ≤50PPM/°C, Current: ≤200PPM/°C |
| | Readback Temp. Coefficient | Voltage: ≤50PPM/°C, Current: ≤200PPM/°C |
| | Rise Time | Full Load: ≤30ms |
| | Fall Time | Full Load: ≤15ms |
| | Setup Stability 30 min | Voltage: ≤0.02% + 0.02%FS, Current: ≤0.1% + 0.1%FS |
| | Setup Stability 8 Hour | Voltage: ≤0.02% + 0.02%FS, Current: ≤0.1% + 0.1%FS |
| | Readback Stability 30 min | Voltage: ≤0.02% + 0.02%FS, Current: ≤0.1% + 0.1%FS |
| | Readback Stability 8 Hour | Voltage: ≤0.02% + 0.02%FS, Current: ≤0.1% + 0.1%FS |
| | Power factor | ≥ 0.99 |
| | Ripple Voltage peak to peak | ≤120 mV |
| | Isolation | 500V or better |
| | Size | 3U |
| | Communication Interface | USB, Ethernet (LAN) |
| | Software feature | : Data Setting and Saving: Yes, Export data to excel: Yes, Import data from Excel: Yes, |
| | | Battery Emulator feature: Yes |
| Input | Operation in Source Mode | CV / CC / CP |
| | Operation in Sink Mode | CC / CP / CR |
| | EFFICIENCY | ≥ 90% |
| | Regenerative efficiency | 95% or better |
| | Input Supply | 1-phase 230V nominal, 50Hz nominal |
| | Protection | Protection Type: OVP / OCP / OPP / OTP / V sense protection |
| ENVIRONMENT | WORKING TEMP. | Storage: 0°C to 70°C, Working: 0°C to 50°C |
| SAFETY & EMC | SAFETY STANDAED | Designed to meet UL60950-1 |
| | EMI & EMC | Designed to meet EN55011 / EN55022 , EN61000-4-2 |
| | COOLING | Forced cooling |
| NOTE | 1. All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. Ambient temperature. 2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives. | |

SMPS I DC DC Converter I Battery Chargers I Dc Power Supply I DC AC Converter I Electro Plating Rectifier I POE SMPS I Adapters I LED Driver I Inverter I CVT I Servo controlled Voltage Stabilizer I Transformer