

DATASHEET

PROGRAMMABLE BIDIRECTIONAL DC POWER SUPPLY



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PIPL-100360DCPSP

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-100360DCPSP
Output	DC VOLTAGE ADJ. RANGE	0 TO 100VDC
	DC CURRENT ADJ. RANGE	0 TO 360AMP
	RATED POWER	15000W
	LINE REGULATION	Voltage: $\leq 0.01\%FS$, Current: $\leq 0.05\%FS$
	LOAD REGULATION	Voltage: $\leq 0.02\%FS$, Current: $\leq 0.05\%FS$
	Setup Resolution	Voltage: 0.001 V, Current: 0.01 A
	Readback Resolution	Voltage: 0.001 V, Current: 0.01 A
	Setting Accuracy	Voltage: $\leq 0.02\% + 0.02\%FS$, Current: $\leq 0.1\% + 0.1\%FS$
	Readback Accuracy	Voltage: $\leq 0.02\% + 0.02\%FS$, Current: $\leq 0.1\% + 0.1\%FS$
	Setting Temp. Coefficient	Voltage: $\leq 50PPM/^{\circ}C$, Current: $\leq 200PPM/^{\circ}C$
	Readback Temp. Coefficient	Voltage: $\leq 50PPM/^{\circ}C$, Current: $\leq 200PPM/^{\circ}C$
	Rise Time	Full Load: $\leq 30ms$
	Fall Time	Full Load: $\leq 15ms$
	Setup Stability 30 min	Voltage: $\leq 0.02\% + 0.02\%FS$, Current: $\leq 0.1\% + 0.1\%FS$
	Setup Stability 8 Hour	Voltage: $\leq 0.02\% + 0.02\%FS$, Current: $\leq 0.1\% + 0.1\%FS$
	Readback Stability 30 min	Voltage: $\leq 0.02\% + 0.02\%FS$, Current: $\leq 0.1\% + 0.1\%FS$
	Readback Stability 8 Hour	Voltage: $\leq 0.02\% + 0.02\%FS$, Current: $\leq 0.1\% + 0.1\%FS$
	Power factor	≥ 0.99
	Ripple Voltage peak to peak	$\leq 120 mV$
	Isolation	500V or better
Input	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
	Operation in Source Mode	CV / CC / CP
	Operation in Sink Mode	CC / CP / CR
	EFFICIENCY	$\geq 90\%$
ENVIRONMENT	Regenerative efficiency	95% or better
	Input Supply	1-phase 230V nominal, 50Hz nominal
	Protection	Protection Type : OVP / OCP / OPP / OTP / V sense protection
SAFETY & EMC	WORKING TEMP.	Storage: $0^{\circ}C$ to $70^{\circ}C$, Working: $0^{\circ}C$ to $50^{\circ}C$
	SAFETY STANDAEED	Designed to meet UL60950-1
SAFETY & EMC	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 | DC DC Converter | Battery Chargers | Dc Power Supply | DC AC Converter | Electro Plating Rectifier | POE SMPS |
Adapters | LED Driver | Inverter | CVT | Servo controlled Voltage Stabilizer | Transformer