

# DATASHEET

## PROGRAMMABLE DC POWER SUPPLY

### PIPL-40200DCPSP



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## PROGRAMMABLE DC POWER SUPPLY

#### ❖ FEATURES :

- SMPS Based Design.
- Constant Voltage & Constant Current Operation.
- 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.



#### ❖ SPECIFICATION :

MODEL NO		PIPL-40200DCPSP
OUTPUT	DC VOLTAGE	40VDC
	DC CURRENT	200AMP
	VOLTAGE ADJ. RANGE	0 TO 40VDC
	CURRENT ADJ. RANGE	0 TO 200AMP
	RATED POWER	8000W
	RIPPLE & NOISE (max)	< 40mVrms at BW: 300KHz
	VOLTAGE TOLERANCE	Rated voltage Of +/-1%
	LINE REGULATION	<0.01% for (330-510 VAC)
	LOAD REGULATION	< 0.01% in CV mode
	Stability of output DC current	100 ppm after 30mins of warm up time and during 8 hrs
	Stability of output DC voltage	100 ppm after 30mins of warm up time and during 8 hrs
	Total Harmonic Distortion (THD)	Current TDH <5%
	Transient Response	< 1ms
	Rise Time and Fall Time	< 100ms
	Turn on delay	< 600ms after turned ON
	Inrush current	< 50A
	Display meter	4 digit for voltage and 4 digit for current
	Voltage read back accuracy	0.1% Vout +0.1% Vrated
	Current read back accuracy	0.25% Iout + 0.2% Irated
	Voltage read back resolution	< 2mv
	Current read back resolution	< 10mA
	Voltage setup resolution	<2mV
	Current setup resolution	< 10mA
	Display and control features	Mains ON/OFF, voltage and current setting with encoders, switch setting: set over voltage, under voltage and fold back
	Power Factor	> 0.98 at full load
	Temperature Coefficients for both CC & CV modes	< 80 ppm/degree C after 30 mins of warm up time and during 8 hrs
	Output terminal	Bus bar with M6 bolts
	Input & Output interfaces	Analog programming, LAN, USB, RS485, RS232 and SCIP commands
	External interlock	Potential free contact for remote shutdown
	Dimensions	19" rack size, 3U height excluding connectors, terminals, switches front and back panel controls.
INPUT	AC VOLTAGE RANGE	3 Phase AC, 330-510VAC
	FREQUENCY RANGE	50Hz
	EFFICIENCY	> 90%
	PROTECTION	Output over voltage, over current, short circuit, fold back, over temperature, mains over & under voltage
ENVIRONMENT	WORKING TEMP.	0 ~ +50 degree C
	WORKING HUMIDITY	max. 95% at 40 degree C
	STORAGE TEMP./ HUMIDITY	(-10 To 85 DegC 10 To 95% RH )

	VIBRATION	(-10 To 500 Hz , 2G , 20min / Sweep , Period – 1 Hr, Each along X,Y,Z axes.)
SAFETY & EMC	SAFETY STANDAEED	Designed to meet UL60950-1
	WITH STAND VOLTAGE	I / P – O / P 1.5KVDC , I / P- Earth, O / P-Earth 1.5KVDC
	ISOLATION RESISITANCE	I / P – O / P , I / P- Earth, O / P-Earth : 100Mohms / 500VDC.
	EMI & EMC	Designed to meet EN55011 / EN55022 , EN61000-4-2
OTHERS	ENCLOSURE PROTECTION	IP-21
	COOLING	Standard forced air cooling with variable speed
	WEIGHT	< 50kg
NOTE	<p>1. All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. Ambient temperature.</p> <p>2. Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</p> <p>3. Tolerance includes set up tolerance, line regulation and load regulation.</p> <p>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.</p>	

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

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