

# Data Sheet

## Mobile Communications DC Power Supply

### PPS 1201GSM-A-MO



The B&K Precision PPS 1201GSM-A-MO is a DC power supply that has the feature of both a DC source and support for the testing of portable electronic products' internal charging circuit. Dual outputs provide simultaneous source and sink functions. As a source, it can measure as small as 3mA Range standby current (with resolution up to 1uA). As a sink, it can emulate a battery load, and measure the charging voltage and current.

Designed especially for portable electronic products, PPS 1201GSM-A-MO not only minimizes the testing procedures and the number of test equipment required, its remote sense feature also allows voltage to be accurately delivered to the DUT. Through its standard GPIB interface, this mobile communications DC source meets the customer expectation of an automated testing instrument.

#### Features & Benefits

- Standard GPIB interface
- Electronic calibration via front panel or GPIB
- Programmable overvoltage and overcurrent protection
- Low ripple and noise output
- Output enable/disable
- Remote sensing function
- Programmable up/down fine tuning
- Power-off memory

Model	PPS 1201GSM-A-MO
<b>Channel No.</b>	CH1 & CH2
Output Voltage	0 ~ 8V
Output Current	0 ~ 3A
Sink Current	0 ~ -3A
Current Measurement Range	3A Range : -3A ~ 3A 3mA Range : 0 ~ 3mA
<b>Line Regulation ±(% of output + offset)</b>	
Voltage	0.001% + 1mV
Current	0.001% + 1mA
<b>Load Regulation<sup>1</sup> ±(% of output + offset)</b>	
Voltage	0.001% + 1mV
Current	0.001% + 1mA
<b>Ripple and Noise ( 20Hz ~ 20MHz )</b>	
Normal Mode Voltage	0.5mVrms / 10mVpp
Normal Mode Current	1mA <sub>rms</sub>
<b>Resolution</b>	
Programming	2mV / 1mA
Readback	2mV / 1mA(3A) , 1uA(3mA)
<b>Programming Accuracy ±(% of output + offset)</b>	
Voltage	0.05% + 4mV
Current	0.15% + 5mA
<b>Readback Accuracy ±(% of output + offset)</b>	
Voltage	0.1% + 4mV
Current	0.2% + 5mA
<b>Temperature Coefficient per°C ±(% of output + offset)</b>	
Voltage	100ppm/°C
Current	200ppm/°C
Sink Current Tracking	0.3% + 10mA
Transient Response Time	< 50uS
<b>Stability, constant output &amp; temperature ±(% of output + offset), 8hrs</b>	
Voltage	< 0.01% + 1mV
Current	< 0.1% + 5mA
<b>Voltage Programming Speed</b>	
Rising Time	5mSec
Falling Time	10mSec
<b>General</b>	
AC Line Input Voltage Ranges	115 / 230 VAC ± 10% ( 47Hz ~ 63Hz )
Temperature Ratings	Operating( 0°C ~ 40°C ) · Storage( - 10°C ~ 70°C )
Common-Mode Voltage	±240Vdc
Dimensions ( W×H×D )mm	( 210 × 130 × 400 )
Weight	7.3kg

<sup>1</sup>Remote sense operation is possible with up to 0.5V drop for positive and negative output load leads.