

HCS Power Supply Series Command Set (firmware version 3.1 and above)

Command code & return data	Description
Input Command: GMOD<CR> Return data from power supply: HCS-[nnnn][CR] OK[CR]	Get Model Number HCS-nnnn*
Input Command: GVER<CR> Return data from power supply: REVn.n[CR] OK[CR]	Get Firmware Version+
Input Command: GERR<CR> Return data from power supply: nnn[CR] OK[CR]	Get Error Code nnn+ 000 = no error, operation normal 001 = over voltage fault 002 = over temperature (OTP) fault 003 = over current fault 004 = RECALL or MODE switch fault? 006 = temperature normal after OTP?
Input Command: GMAX<CR> Return data from power supply: [vvv][ccc][CR] OK[CR]	Get Maximum Voltage and Current
Input Command: VOLT[vvv]<CR> Return data from power supply: OK[CR]	Set Voltage
Input Command: CURR[ccc]<CR> Return data from power supply: OK[CR]	Set Current
Input Command: GETS<CR> Return data from power supply: [vvv][ccc][CR] OK[CR]	Get the Voltage & Current Settings
Input Command: GETD<CR> Return data from power supply: [vvvv][cccc][s][CR] OK[CR]	Get the Displayed Voltage & Current Status s = 0 when in CV mode Status s = 1 when in CC mode
Input Command: SEVC[vvv][ccc][f]<CR> Return data from power supply: OK[CR]	Set Voltage & Current and turn the PS output on (f = 0) or off (f = 1)
Input Command: GETM<CR> Return data from power supply: [vvv][ccc][vvv][ccc][vvv][ccc][CR] OK[CR]	Get PS Preset Memory Values* P1, P2, P3
Input Command: PROM[vvv][ccc][vvv][ccc][vvv][ccc]<CR> Return data from power supply: OK[CR]	Set PS Preset Memory Values P1, P2, P3
Input Command: RUNM[n]<CR> Return data from power supply: OK[CR]	Set PS to Preset Memory n = 0, 1, 2 (P1, P2, P3)

Command code & return data	Description
Input Command: SESS<CR> Return data from power supply: OK[CR]	Start Session* Disable Front Panel and turn 'REAR CONTROL' on until ENDS
Input Command: ENDS<CR> Return data from power supply: OK[CR]	End Session Enable Front Panel and turn 'REAR CONTROL' off
Input Command: GOUT<CR> Return data from power supply: [f][CR] OK[CR]	Get PS output on/off status+ f = 0 PS on, f = 1 PS off
Input Command: SOUT[f]<CR> = turn PS output on/off Return data from power supply: OK[CR]	PS output on/off control* f = 0 PS on, f = 1 PS off
Input Command: GOVP<CR> Return data from power supply: [vvv][CR] OK[CR]	Get PS Upper Voltage Limit (UVL) value
Input Command: SOVP[vvv]<CR> Return data from power supply: OK[CR]	Set PS Upper Voltage Limit (UVL) value
Input Command: GOCP<CR> Return data from power supply: [ccc][CR] OK[CR]	Get PS Upper Current Limit (UCL) value
Input Command: SOCp[ccc]<CR> Return data from power supply: OK[CR]	Set PS Upper Current Limit (UCL) value

* Changes to command with firmware version 3.1 and above.

+ New to firmware version 3.1 and above.

NOTE:

1. The USB interface uses the Silicon Labs CP210x chip. This provides USB to serial port conversion and the UART must be set to 9600 baud, no parity, 8 data bits, 1 stop bit.
2. All commands must be in uppercase.
3. Spaces between commands and parameters are not allowed in later releases of firmware.
4. One decimal place (vv.v) for all voltage values. Two decimal places for electrical current values (c.cc) with HCS-3102, HCS-3104 and HCS-3204. One decimal place (cc.c) for all other HCS power supplies. An extra decimal place is provided with the return values with 'GETD'. e.g. vv.vv and c.ccc or cc.cc
5. All voltage settings 'vvv' must be between 008 (0.8V) and 'GOVP', otherwise the voltage will not change and the command will not respond with 'OK'. With manual control, the power supply will display 'UuL' (Upper Voltage Limit) when an attempt is made to adjust the voltage above the voltage limit set by 'SOVP'.
6. All current settings 'ccc' must be between 000 (0.0A) and 'GOCP', otherwise the current will not change and the command will not respond with 'OK'. With manual control, the power supply will display 'UCL' (Upper Current Limit) when an attempt is made to adjust the current above the current limit set by 'SOCp'.
7. The power supply can also be turned off, at any time, using the hardwired Remote Control input. The 'GOUT' command always returns the current on/off state of the power supply.
8. Besides using the 'GMOD' and 'GVER' commands for identifying power supplies, Procon Technology suggests that the 'PROM' and 'GETM' commands can be used as a means of programming and identifying individual power supplies connected to the computer. The 'SOVP' and 'GOVP' or 'SOCp' and 'GOCP' commands could also be used.