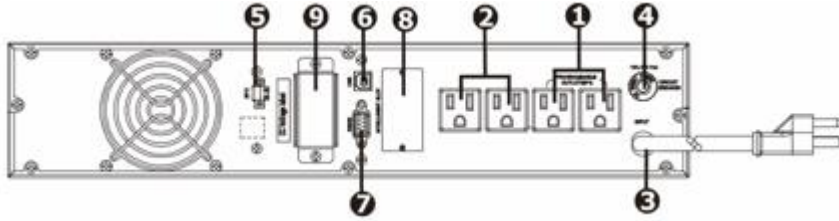


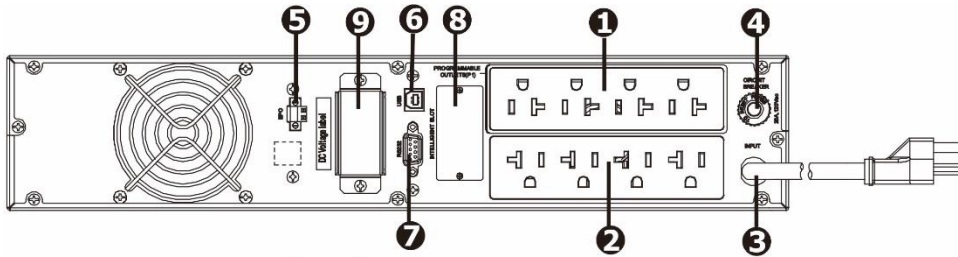
Date: 08/11/2016

Subject: Remote Control of outlets on UniStar V Products

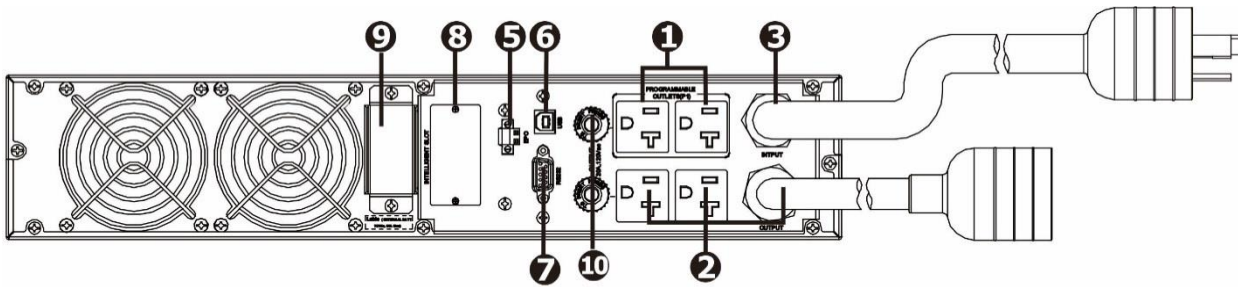
The Staco UniStar V UPS products (1-3kVA, single phase, 60Hz) have one set of outlets with hardware which allows them to be turned on/off separately from the other outlets.



1kVA & 1.5kVA



2kVA



3kVA

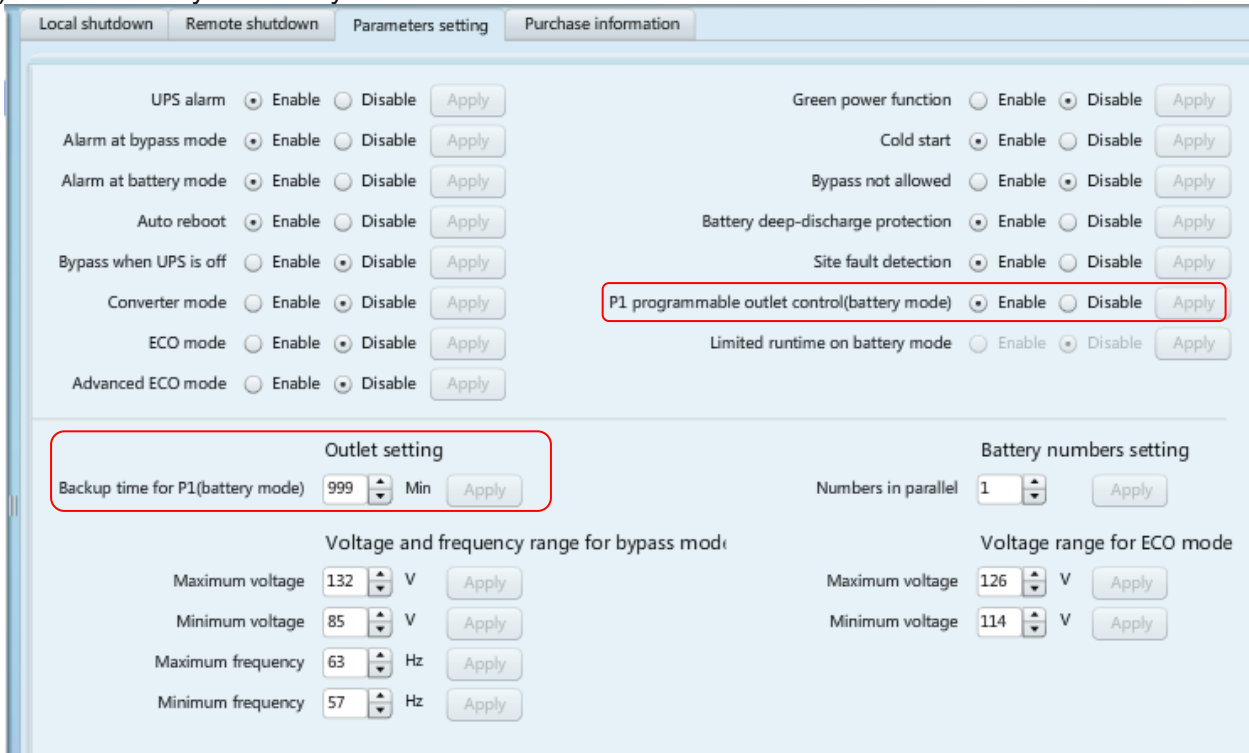
Outlets label as "1" in figures are the programmable outlets. All programmable outlets are connected together and will have same state – example: when programmable outlet is set to "On" then all programmable outlets for that unit will be "On".

There are two ways to control these outlets – ViewPower software or RS232 commands

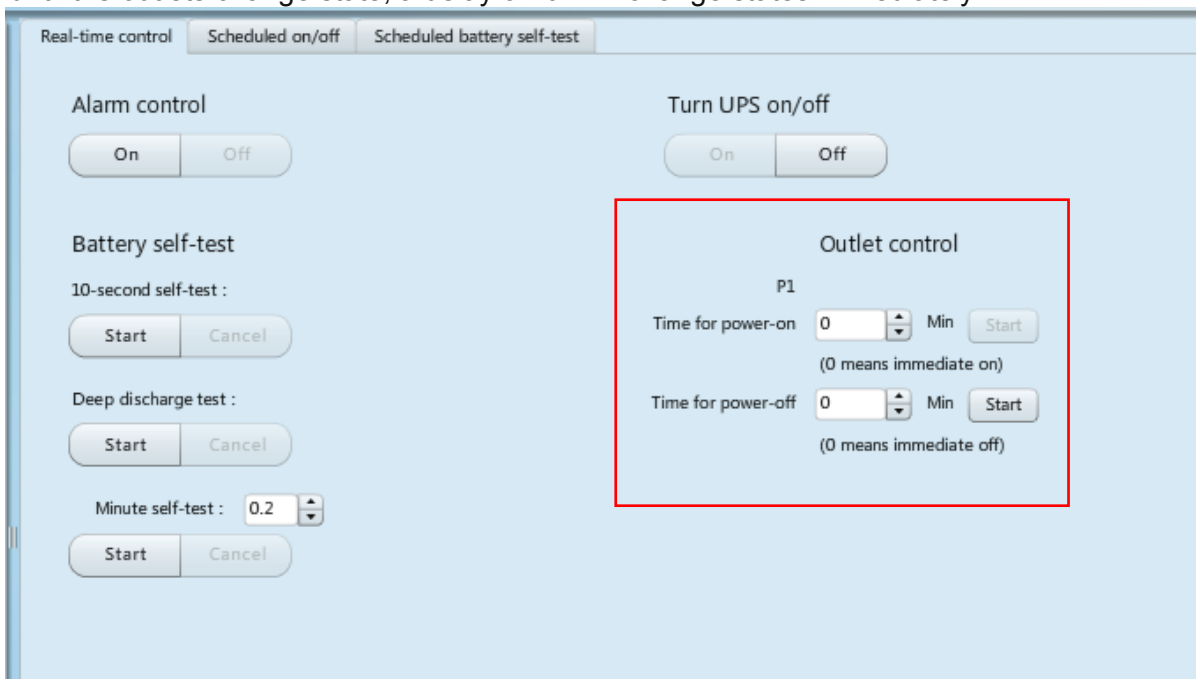
ViewPower Software

The ViewPower software come standard with all Staco UniStar V UPS's. Install the software and connect to the UPS per the instructions that comes with the software. Once connected, there are couple parameters that can be adjusted for these programmable outlets.

Under UPS Settings->Parameters setting, the outlets can be programmed to turn-off after specified time on battery. The “P1 programmable outlet control (battery mode)” must be enabled. “Backup time for P1 (battery mode)” sets the delay on battery until the outlets are turned off.



Under Control->Real-time control, the outlets can be turned On/Off remotely. A delay from when the On/Off is activated until the outlets change state; a delay of “0” will change states immediately.



RS232 Commands

The programmable outlets can have the same function as ViewPower software with RS232 commands. Once the communication is established with the UPS using the parameters in the RS232 Protocol, commands can be sent to control the outlets. The RS232 protocol has outlet socket1 and outlet socket2 listed. Since all Staco UPS products only have one set of programmable outlets, only outlet socket1 is valid. Any command for outlet socket2 will not be accepted.

PSK1<m> <cr>: Set output socket release delay time in battery mode

Computer: PSF1<m><cr>; "1" is refer to output socket1

<m> is the output socket release delay time in battery mode, it's from "000" to "999", and unit is minute.

UPS: (ACK<cr> if UPS accepts this command, otherwise, responds (NAK<cr>

NOTE: To program the delay to turn programmable outlets off when on Battery.

PEJ/PDJ<cr>: enable/disable Output socket1 when the delay release time is over in battery mode

Computer: PEJ or PDJ<cr>

UPS: (ACK<cr> if UPS accepts this command, otherwise, responds (NAK<cr>

Note: PEJ enable programmable outlets to turn off after delay while on battery. PDJ disables this function.

SKON1 <cr>: Remote turn off UPS

Computer: SKON1<cr>; "1" is refer to output socket1

UPS: (ACK<cr> if UPS accepts this command, otherwise, responds (NAK<cr>

NOTE: Command to turn programmable outlets ON

SKOFF1 <cr>: Remote turn off UPS

Computer: SKOFF1<cr>; "1" is refer to output socket1

UPS: (ACK<cr> if UPS accepts this command, otherwise, responds (NAK<cr>

NOTE: Command to turn programmable outlets OFF