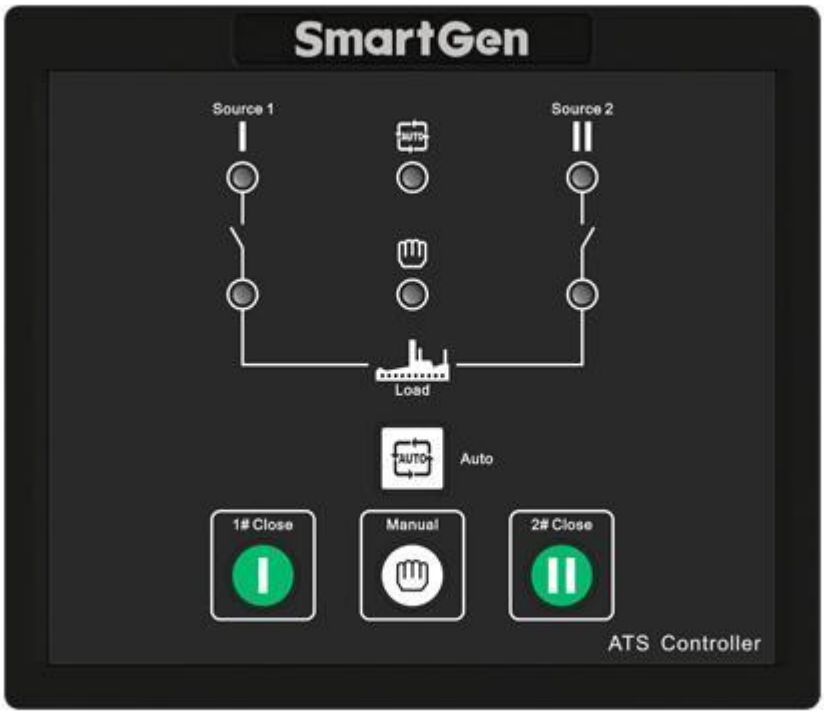


HAT520N

The powerful Microprocessor contained within the HAT520N ATS controller allows for precision voltage (2-way 3-phase/single phase) measuring and make accurate judgment on abnormal voltage (power lost, over/under voltage, over/under frequency, loss of phase, phase sequence wrong) and control ATS to transfer after the delay has expired. This controller is suitable for NO Breaking ATS. When 1# power is abnormal, the controller will send signal to start genset after the “1# abnormal delay” has expired. “Three remote” (remote control, remote measurement and remote communication) function can be implemented with the help of LINK communication port.

Product Code：6020025
Power Supply：AC(170~277)V
Case Dimensions：139*120*50(mm)
Panel Cutout：130*111(mm)
Operating Temp. ：(-25~+70)℃
Weight：0.49kg

COMPLETE DESCRIPTION

The powerful Microprocessor contained within the **HAT520N** ATS controller allows for precision voltage (2-way 3-phase/single phase) measuring and make accurate judgment on abnormal voltage (power lost, over/under voltage, over/under frequency, loss of phase, phase sequence wrong) and control ATS to transfer after the delay has expired. This controller is suitable for *NO Breaking ATS.* When 1# power is abnormal, the controller will send signal to start genset after the "1# abnormal delay" has expired. "Three remote" (remote control, remote measurement and remote communication) function can be implemented with the help of LINK communication port.

PERFORMANCE AND CHARACTERISTICS

HAT520N ATS controller owns performance and characteristics are shown as below,

1) Measure and display 2-way 3 phase Voltage and Frequency:

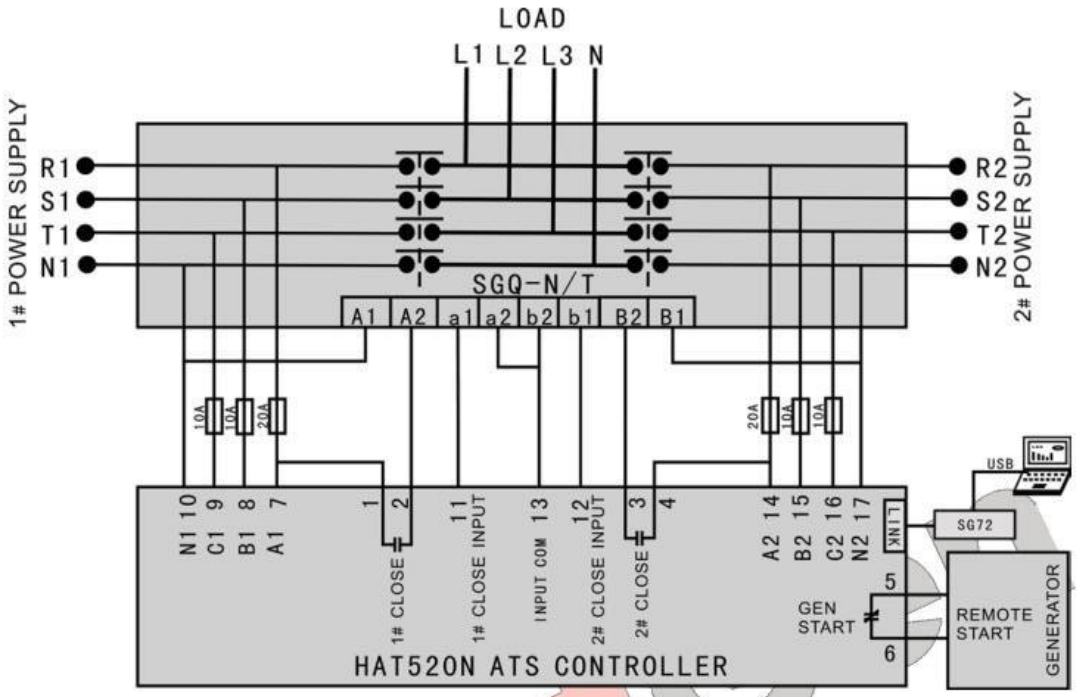
1#	**2#**
Line voltage (Uab, Ubc, Uca)	Line voltage (Uab, Ubc, Uca)
Phase voltage (Ua, Ub, Uc)	Phase voltage (Ua, Ub, Uc)
Frequency Hz	Frequency Hz

2) Over/under voltage, loss of phase, phase sequence wrong, over/under frequency protection function. As default, phase sequence wrong protection and over/under frequency protection are disable; however, users can set the protection function as need.
3) Parameters can be set via PC software using SG72 module (USB to LINK) or other converse module.
4) The voltage normal delay of 1# or 2#can be set in (0~60) seconds and the Genset start delay can be set in (0~3600) seconds.
5) The voltage abnormal delay of 1# or 2#can be set in (0~60) seconds and the Genset stop delay can be set in (0~3600) seconds.
6) "1# power priority", "Auto/Manual", "No priority" and "2#power priority" can be set via controller front panel.
7) Closing output signal can be set as on intervals or as continuous output.
8) Applicable for 2 isolated neutral line.
9) Auto/Manual mode. In manual mode, ATS transfer 1# switch or 2# switch can be implemented via panel pushbutton.
10) LEDs mounted on front panel can clearly show ATS running status.
11) The output contactor capacity of 1# and 2#power supply transfer relay (1#CLOSE, 2#CLOSE) is 16A AC250V, volts-free contact, can be directly used in driving switch to transfer.
12) The output contactor capacity of Genset start relay (GENS START) is 7A AC250V/7A DC28V, volts-free N/C contact.
13) Suitable for various AC systems (3 phase 4-wires, 2-phase 3-wires and single-phase 2-wire).
14) Modular design, self extinguishing ABS plastic shell, pluggable terminal, built-in mounting，compact structure with easy installation.

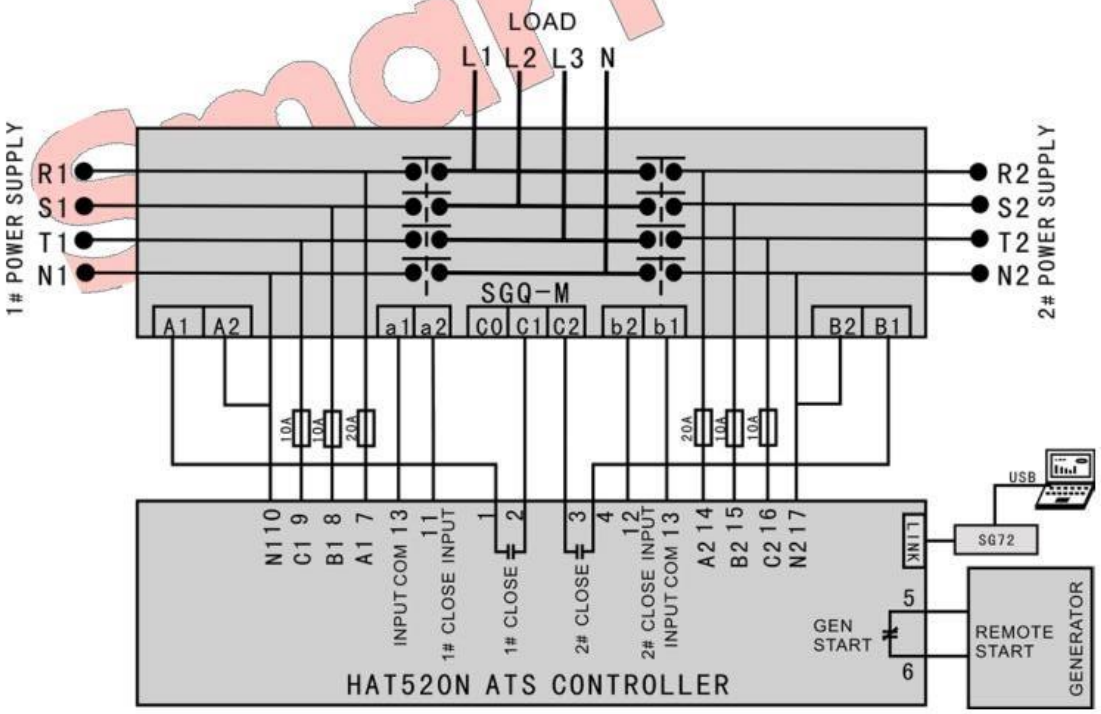
PARAMETER LIST

Function Item	Parameter
Display	LED
AC System	1P2W/2P3W/3P4W
Alternator Frequency	50/60Hz
Monitor Interface	LINK
Programmable Interface	LINK
Switch Over Priority	●
Applicable Switch Type	No break position
DC Supply	AC(170~277)V
Case Dimensions(mm)	139*120*50(L*W*H)
Panel Cutout(mm)	130*111
Operating Temp.	(-25~+70)℃

HAT520N Typical Application



Graph 3 SGQ-N/T Wiring Diagram



Graph 4 SGQ-M Wiring Diagram