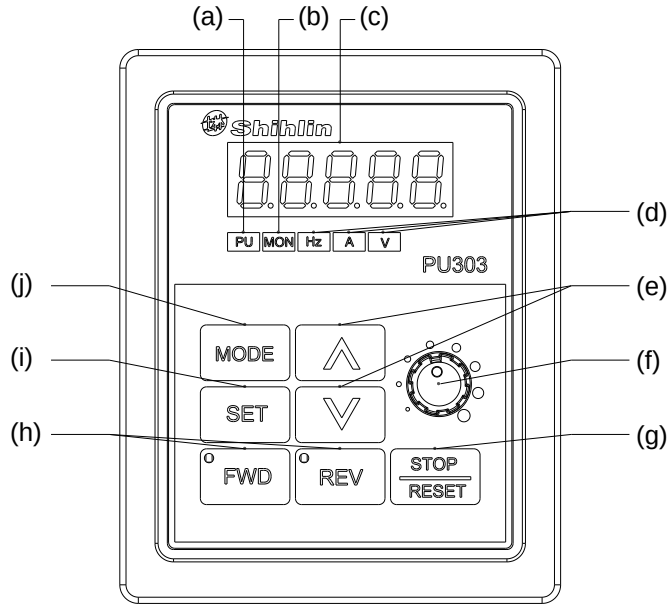
PU303 Quick Start Guide

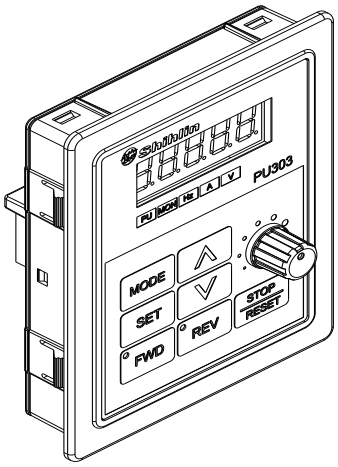
1. Components name of the operation panel



NO.	Component	Name	Description
(a)	PU	Operation mode indicator	**PU:** ON to indicate the PU and CU operation mode. flicker to indicate the H1-H5 operation mode.
(b)	MON	Operation panel status indicator	**MON:** ON to indicate the monitoring mode.
(c)	88888	Monitor(5 digits LED)	Show the frequency, parameter NO#, parameter value, etc.
(d)	Hz A V	Parameter unit indicator	**Hz:** ON to indicate the frequency value. **A:** ON to indicate the output current. **V:** ON to indicate the monitoring optional value. The monitoring value is set by parameter 00-07(P.161), the default setting is output voltage.
(e)	∧ ∨	UP key DOWN key	**UP:** increase value, switches option items **DOWN:** decrease value, switches option items.
(f)		VR knob	Clockwise rotation increases value. Counter clockwise rotation decreases value.
(g)	STOP/RESET	STOP/RESET Key	**STOP:** stops the operation commands. **RESET:** resets the inverter when alarms.
(h)	FWD REV	FWD Key REV Key	**FWD:** starts forward rotation. The LED is on during the forward operation. **REV:** starts reverse rotation. The LED is on during the reverse operation.
(i)	SET	SET Key	Long press SET key to write the parameter value, frequency value, etc. Quick press SET key to read the parameter value, and enter the next menu.
(j)	MODE	MODE Key	Switch between different modes

2. Order code

Order code description：

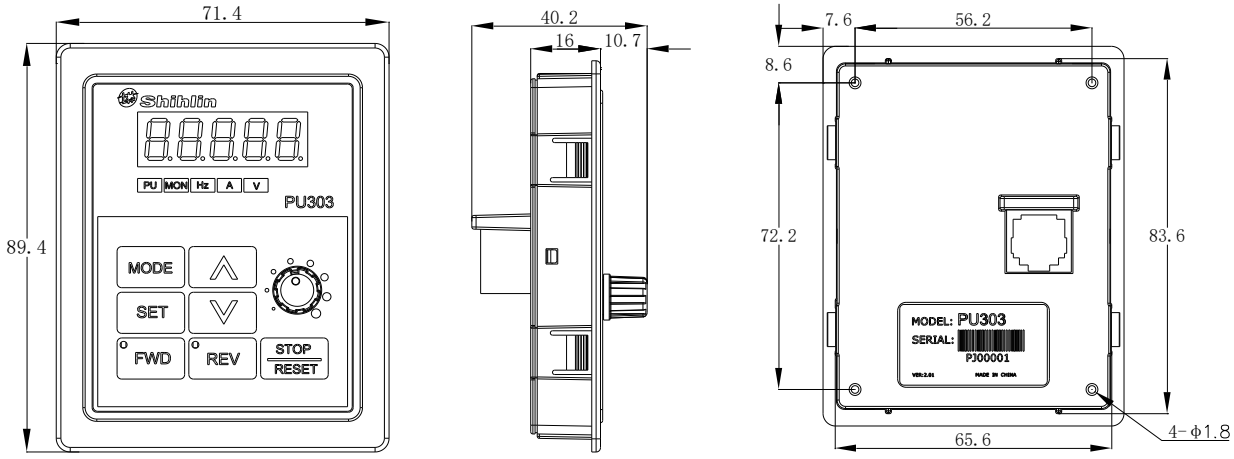


NO.	Model Name	Description	Order code
1	PU303	PU303 operation panel	SNKPU303

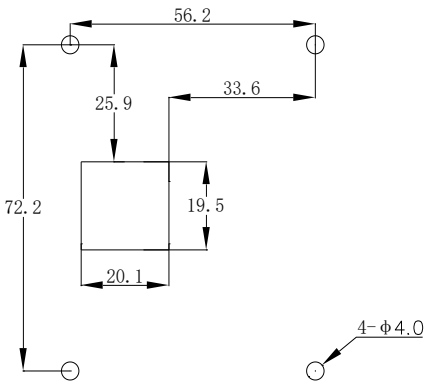
Note: PU303 is applicable to all SS2 series and all 3rd generation inverters.

3. Dimensions(unit:mm)

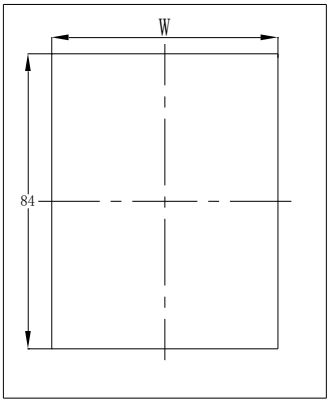
<Outline dimension drawings>



< Panel mounting hole size >

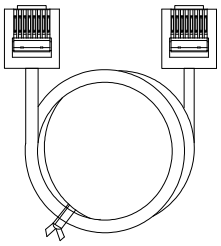


< Flange mounting hole size(note)>



Panel thickness	1.2mm	1.6mm	2.0mm
W	65.6mm	66mm	66.5mm

4. CBL:Data transmission line (the line is to be used with the above keypads, it's not standard part and needs to be purchased separately)



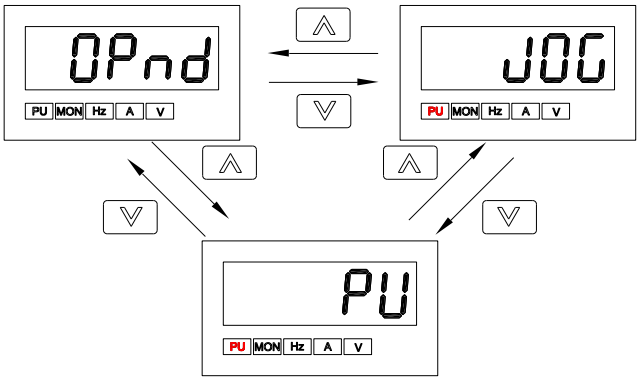
Order code description

NO.	Model name	Description	Order code
1	CBL1R5GT	Data transmission line(length: 1.5M)	SNKCBL1R5GT
2	CBL03GT	Data transmission line(length:3M)	SNKCBL03GT
3	CBL05GT	Data transmission line(length: 5M)	SNKCBL05GT

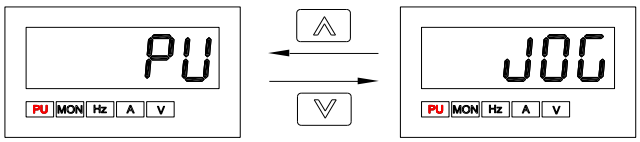
5. Basic Operation

5.1 Flow chart for switching operation mode

P79 = 0

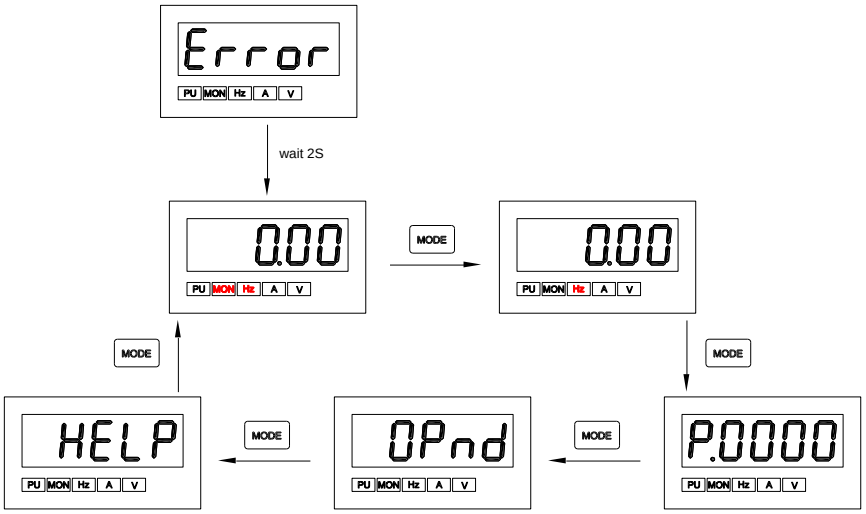


P79 = 1



Note: 1. In "PU mode", keypad screen indicates PU and the PU indicator is ON.
2. In "Combined mode 1, 2, 3, 4, or 5", the PU indicator flickers.
3. In "JOG mode", the keypad screen shows JOG and the PU indicator is ON.
4. When P.79 is set to =2, 3, 4, 5, 6, 7 or 8 , the operation mode is fixed and no flow chart available.
5. The operation mode switching need to press SET key.

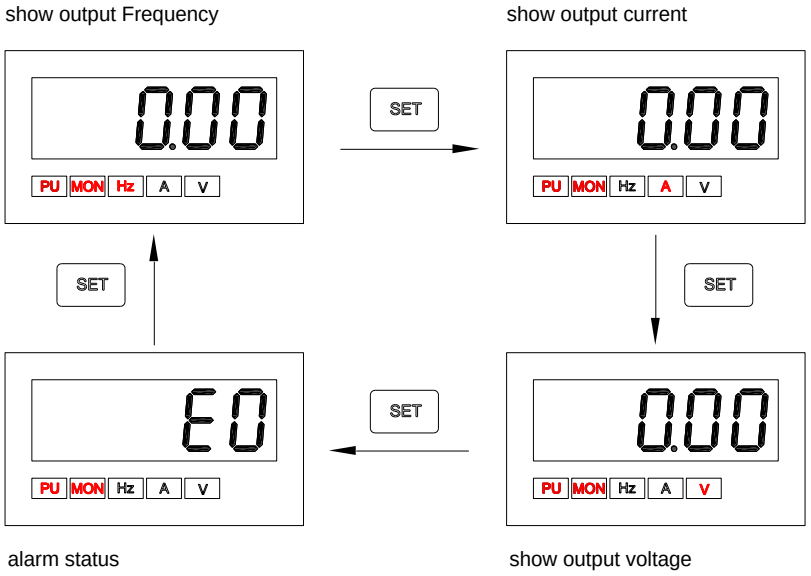
5.2 Flow chart for switching operation mode



Note: 1. For detailed operation steps under monitoring mode, please refer to section 5.3.
2. For detailed operation steps under frequency setting mode, please refer to section 5.4.
3. For detailed operation steps under parameter setting mode, please refer to section 5.5.
4. For detailed operation steps under HELP mode, please refer to section 5.6.

5.3 Operation flow chart under monitoring mode

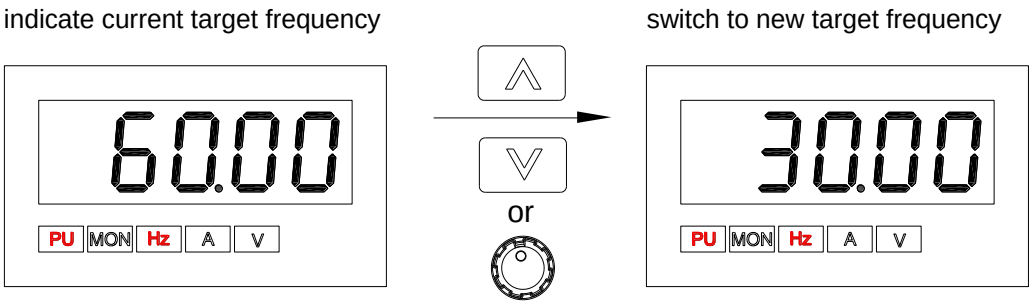
Take PU mode for example:



Note: 1. Under “monitoring output frequency” mode, the MON PU and Hz indicators are ON, and the screen indicates output frequency.
2. Under “monitoring output current” mode, the MON PU and A indicators are ON, and the screen indicates output current value.
3. Under “ monitoring output voltage” mode, the MON PU and V indicators are ON, and the screen Indicates output voltage value.
4. Under “browsing alarm record” mode, the MON and PU indicators are ON, and the screen indicates current alarm code.
5. For alarm codes, please refer to corresponding series of Shihlin Electric Inverters user manual for detail.

5.4 Operation flow chart for frequency setting

Take PU mode for example:



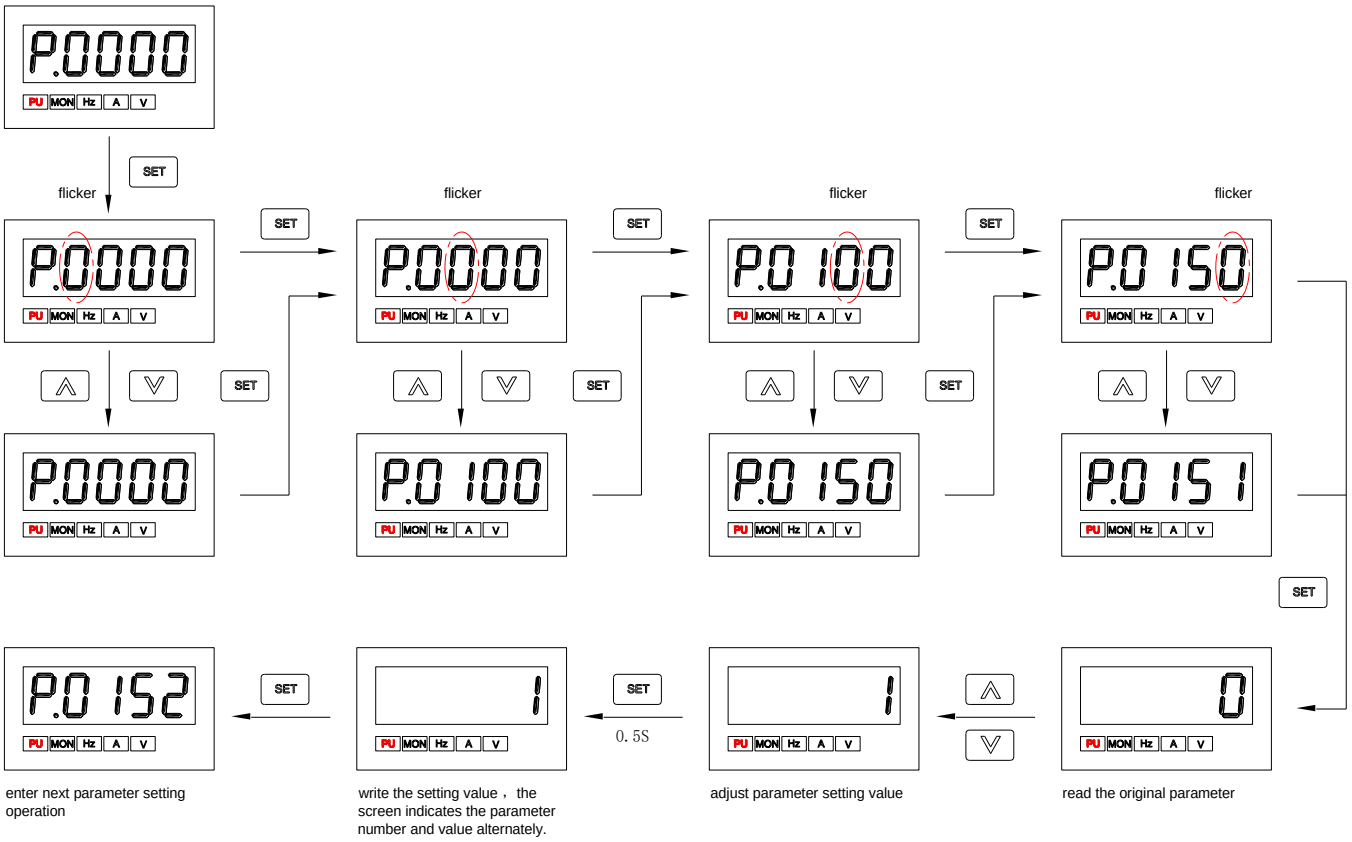
Note: 1.By PU_ur setting, choose ∧ ∨ or VR knob to change the frequency when the inverter is running.

2.Under frequency setting mode, the Hz and PU indicators are ON., and the MON indicator is OFF.

3.When setting frequency with keypad, the set value cannot exceed the upper frequency. When higher frequency is needed, the upper frequency should be changed first.

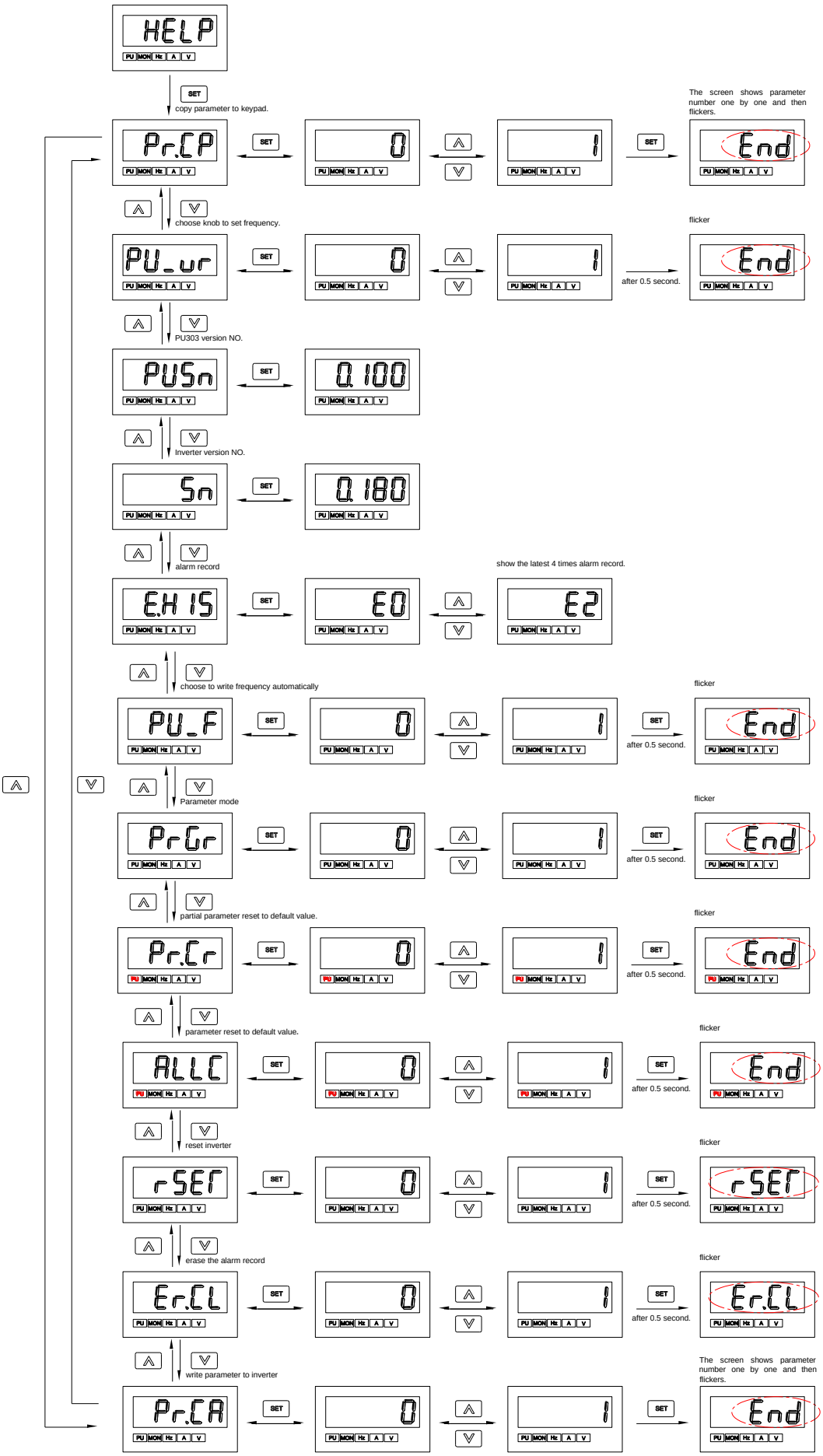
5.5 Operation flow chart for parameter setting

Take PU mode with parameter P.151 for example:



Note: The Hz and MON indicators are OFF under parameter setting mode. Be sure to hold SET key and keep it over 0.5 second to write parameter value.

5.6 Operation flow chart for HELP mode



➢ When press MODE key and switch to HELP mode, the inverter can enter below special operations in menu list:

Menu	Name	Press SET key and enter next operations
PrCP	Copy parameter	0: No change
		1: Copy the inverter parameter value to keypad.(DO NOT copy parameter when the inverter is running.)
PU_ur	Choose knob to set the frequency	0: Target frequency is not set by knob
		1: Target frequency is set by knob.
PUSn	Keypad version	Indicate PU303 version NO#(read only)
Sn	Inverter version	Indicate inverter version NO#(read only)
EH IS	Inverter alarm record	Indicate the latest 4 times alarm code(read only)
PU_F	Choose to write frequency automatically	0:When frequency is changed, the frequency is not write in inverter automatically.
		1: When frequency is changed, the frequency writes in inverter RAM after 0.5 second automatically, and writes in inverter EEPROM after 10 seconds.
		2: When the frequency is changed, the frequency writes in inverter RAM after 0.5 second automatically, and writes in inverter EEPROM after 30 seconds.
		3: When the frequency is changed, the frequency writes in inverter RAM after 0.5 second automatically and not writes in inverter EEPROM.
PrGr	Parameter mode	0: P parameter mode
		1: Parameter group mode
PrCr	Partially parameter reset to factory data	0: No change
		1: Partially parameter is reset to factory data, same as operation with parameter 00-02=4(P.999 = 1)
		2: Inverter parameter is reset to factory data + user parameter (15-00(P.900)~15-19(P.919))is not reset to factory data, same as operation with parameter 00-02=5(P.999 = 2)
		3: Partially parameter is reset to factory data and user parameter (15-00(P.900)~15-19(P.919))is not reset to factory data, same as operation with parameter 00-02=6(P.999 = 3)
ALLC	Parameter reset to factory data	0: No change.
		1:Inverter parameter is reset to factory data, same as operation with parameter 00-02=3(P.998)
rSEr	Reset inverter	0: No change
		1: Reset the inverter, same as operation with parameter 00-02=2(P.997)
Er.CL	Clean alarm	0: No change
		1: Clean all alarm and related information, same as operation with parameter 00-02=1(P.996)
PrCA	Paste parameter	0: No change
		1: Paste the parameter value (store in the keypad) to inverter (please reset the inverter parameter to factory data and then paste parameter, and this operation is only applicable between the same model of inverter. When the inverter is running or under communication mode, this operation is NOT allowed).

Note: 1. If inverter version upgrades, only the lower version inverter parameter is copied between different versions of inverters.

2. If the inverter is not able to write in copy parameter, PU303 keypad will indicate “ERROR”. Please note this error code is not alarm code and no need to reset the inverter.

6. Others

- To improve our products, the parameters and contents may be modified, please contact the agent or refer to Shihlin websites(http://automation.seec.com.tw/) to download the latest version.

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