



Introduction

Please read through this operation guide carefully before using the product.



IMPORTANT

After data conversion using this tool, check the setting contents on LL50A and re-set the relevant parameter as necessary.



IMPORTANT

This tool does not guarantee 100% compatibility with GREEN series on its controllability.
Always execute a test operation before starting actual operations to check the control action.

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■ Scope of the Manual

This manual does not explain the basic operations of Windows. For information regarding the basic operations of Windows, see the user's guide that came with Windows.

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GREEN to UTAdvanced Conversion Tool Operation Guide

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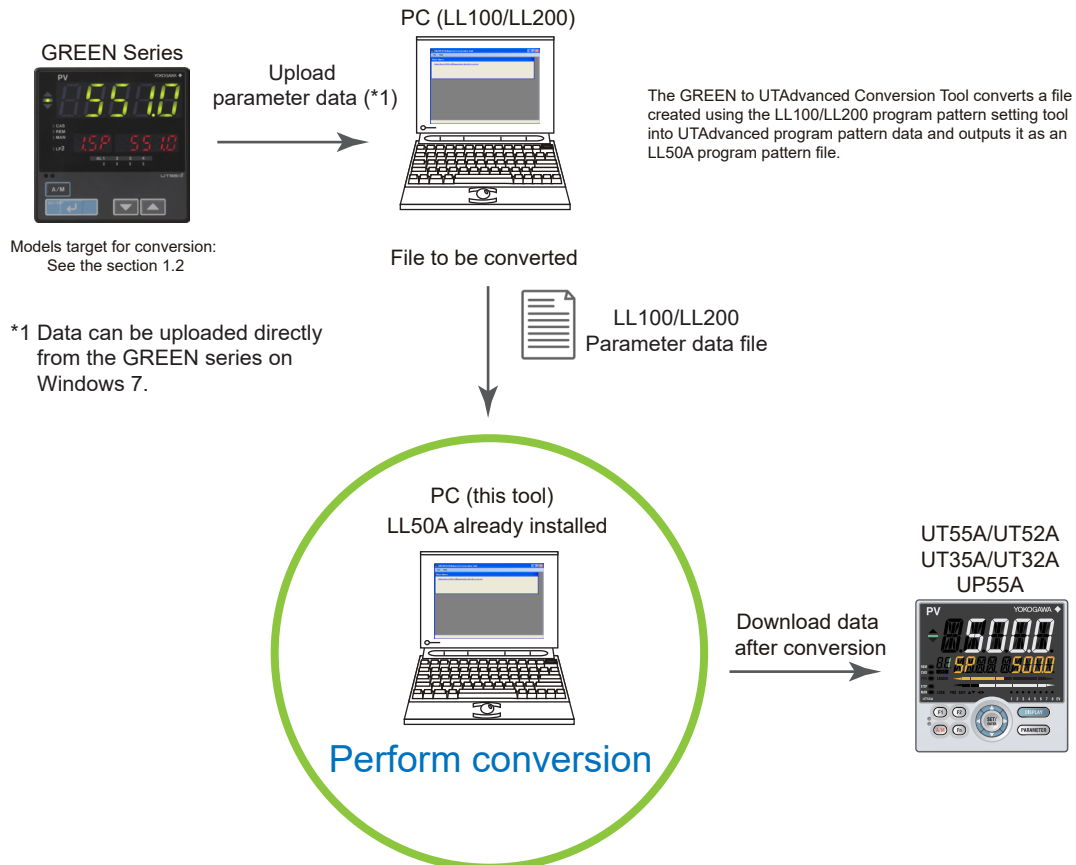
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1. Overview

The GREEN to UTAdvanced Conversion Tool converts files created using the LL100 or LL200 parameter setting tool/program pattern setting tool into UTAdvanced parameter data and outputs it as an LL50A user file.

However, for the UP750 (UP750E), only the program pattern is converted, not the parameter data.

It is not possible to upload parameter data from a GREEN series temperature controller directly to convert it.



1.1 Overview of Conversion Specifications

This tool converts GREEN series parameter data into UTAdvanced parameter data in accordance with the GREEN series specifications.

The parameters whose functions have been partially modified by UTAdvanced cannot be converted; such parameters will be set to the default. For the conversion specifications, see Chapter 4.

The parameters to which functions have been added by UTAdvanced will be set to the default.

The parameters not equipped for UTAdvanced will not be converted. (see the table below).

UT551/UT550/UT520/UT450/UT420

Parameter Symbol	Parameter Name
ORB.1	LOOP1 ON/OFF rate detection band
ORH.1	LOOP1 ON/OFF rate high limit
ORL.1	LOOP1 ON/OFF rate low limit
ORB.2	LOOP2 ON/OFF rate detection band
ORH.2	LOOP2 ON/OFF rate high limit
ORL.2	LOOP2 ON/OFF rate low limit

UP550 only

Parameter Symbol	Parameter Name
GRP	PID group number
TSC1	Primary deviation trend scale
TSC2	Secondary deviation trend scale
TTM	Deviation trend time

UT350/UT320/UT351/UT321

Parameter Symbol	Parameter Name
ORB	ON/OFF rate detection band
ORH	ON/OFF rate high limit
ORL	ON/OFF rate low limit

UT350/UT320/UT351/UT321

Parameter Symbol	Parameter Name
PSL	Protocol selection
BPS	Baud rate
PRI	Parity
STP	Stop bit
DLN	Data length
ADR	Address
RP.T	Minimum response time
LOCK	Key lock

Note that the parameters for communication and key-lock are not on the LL100/LL200.

User file information created using the LL100/LL200 parameter setting tool will be converted.

Setpoints in a file created using the LL100/LL200 program pattern setting tool that will become invalid when downloaded to UP550 will not be converted.

1.2 Models Targeted for Conversion

The GREEN to UTAdvanced Conversion Tool supports the following models.

GREEN series files for conversion (User File for LL100/LL200 Parameter Setting Tool)			UTAdvanced files after conversion (User File for LL50A)	
Extension	Model		Model	Extension
*.t5d	UT550 (Note 1), UT550E (Note 2), UT551 (Note 2)	→	UT55A	*.uta (Note 3)
	UT520 (Note 1), UT520E (Note 2)	→	UT52A	
*.t4d	UT450	→	UT55A	
	UT420	→	UT52A	
*.5td	UT550	→	UT55A	
*.4td	UT520	→	UT52A	*.utb (Note 5)
*.ttd	UT351	→	UT35A	
	UT321	→	UT32A	
*.t3d	UT350, UT350E (Note 4)	→	UT35A	
	UT320, UT321E (Note 4)	→	UT32A	
*.p5d	UP550 (Note 1), UT550E (Note 2)	→	UP55A	*.upa (Note 6)
*.5pd	UP550	→		

GREEN series files for conversion (User File for LL100/LL200 Program Pattern Setting Tool)			UTAdvanced files after conversion (Program Pattern File for LL50A)	
Extension	Model		Model	Extension
*.p5p	UP550 (Note 1), UT550E (Note 2)	→	UP55A	*.5pt (Note 6)
*.5pp	UP550	→		
*.p7p	UP750 (Note 1), UT750E (Note 7)	→		

Note 1: This extension is assigned if a file is created using LL100/LL200 whose function has been enhanced.

Note 2: "UT550E" and "UT520E" are not model names, but are indications on the front panel. Their model names are UT550 and UT520.

Note 3: The UTAdvanced parameter version is R1.01.02.

Note 4: "UT350E" and "UT320E" are not model names, but are indications on the front panel. Their model names are UT350 and UT320.

Note 5: The UTAdvanced parameter version is R1.02.02.

Note 6: The UTAdvanced parameter version is R1.01.03.

Note 7: "UT750E" is not model names, but are indications on the front panel. Their model names are UT750.

The GREEN series model and suffix codes will be converted to the model and suffix codes (standard) of equivalent specifications. For the details of each code, see the respective Users Manuals.

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT520		UT52A		
UT420				
	-0		-0	
	0		0	
	7		1	
	8		2	
			0-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT450		UT55A		
UT550				
UT551				
	-0		-0	
	-1		-1	
	-2		-2	
	0		0	
	1		1	
	2		2	
	3		3	
	4		4	
			0-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT450		UT55A		
UT550				
UT551				
	-3		-0	
	-4		-1	
	0		0	
	1		1	
	2		2	
	3		3	
	4		4	
			0-10-00	
				/LP

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT551		UT55A		
	-0		-0	
	-1		-1	
	A		0	
	B		4	
	C		3	
	D		5	
			2-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT320		UT32A		
UT321				
	-0		-0	
	-2		-2	
	-3		-0	/LP
	0		00	
	1		10	/HA
	2		00	/HA
			-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT350		UT35A		
	-0		-0	
	-2		-2	
	-3		-0	/LP
	0		00	
	1		01	/HA
	2		00	/HA
			-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT351		UT35A		
	-0		-0	
	-2		-2	
	0		00	
	1		01	/HA
	2		00	/HA
	3		02	
	A		02	
			-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UT351		UT35A		
	-3		-0	/LP
	0		00	
	1		01	/HA
	2		00	/HA
			-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UP550		UP55A		
	-0		-0	
	-1		-1	
	-2		-2	
	0		00	
	1		11	
			-10-00	

GREEN Series		UTAdvanced Series		
Model	Suffix Code	Model	Suffix Code	Optional Suffix Code
UP750		UP55A		
	-0		-0	
	-5		-1	
			-2	
	0		00	
	1		11	
			-10-00	

1.3 Operating Environment

The GREEN to UTAdvanced Conversion Tool runs only on a PC in which the LL50A Parameter Setting Software has been installed.

1

● PC

Item	Windows 11 ^{*1} Japanese / English	Windows 10 ^{*1} Japanese / English	Windows 8.1 ^{*1} Japanese / English
Edition	Pro 64bit	Pro 64bit	Pro 32bit or 64bit
Version ^{*1}	21H2 or later	20H2 or later	Update
CPU	Intel processor that supports 64 bit and 1 GHz or faster with 2 or more cores	Intel processor that supports 64 bit and 2 GHz or faster speed(recommended)	Intel processor that 2 GHz or faster speed(recommended)
Recommended main memory capacity	8 GB or more	8 GB or more	4 GB or more
Recommended storage free capacity	32 GB or more	32 GB or more	16 GB or more
Display	Display compatible with OS	Display compatible with OS	Display compatible with OS
Printer	Paper size; Letter or A4 (required for printing)	Paper size; Letter or A4 (required for printing)	Paper size; Letter or A4 (required for printing)

^{*1}: Yokogawa will also stop supporting OSs that Microsoft Corporation no longer supports.

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2. Installation

Download the GREEN to UTAdvanced Conversion Tool from our website (<https://www.yokogawa.com/ns/utadv/convert/>), extract the compressed file, and then install it in the PC.

The decompression produces two files: setup.exe and SetupEN.msi.

2.1 Installing the Tool

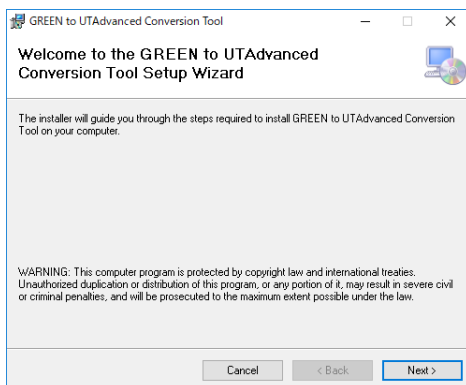


IMPORTANT

- The GREEN to UTAdvanced Conversion Tool runs on a PC in which the LL50A Parameter Setting Software has been installed.
- If you have used an older version of this conversion tool, first uninstall it and then install the newest one.

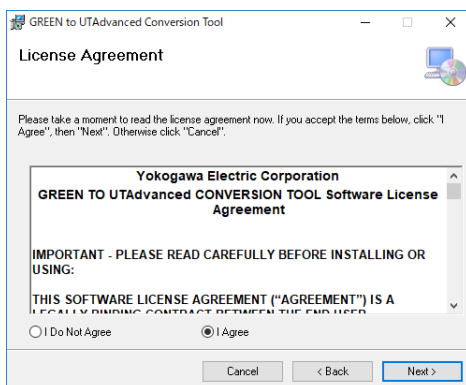
● Step 1

Double-clicking on a setting file (setup.exe) on the Desktop.



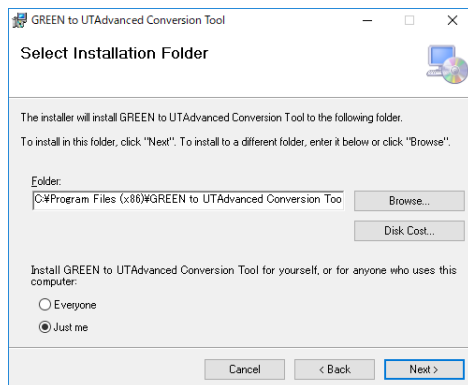
● Step 2

Read the Software License Agreement and click the [Next] button if you agree.



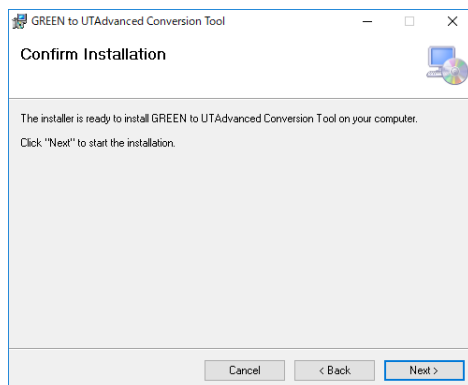
● Step 3

Select the folder to which the GREEN to UTAdvanced Conversion Tool is to be installed and click the [Next] button.



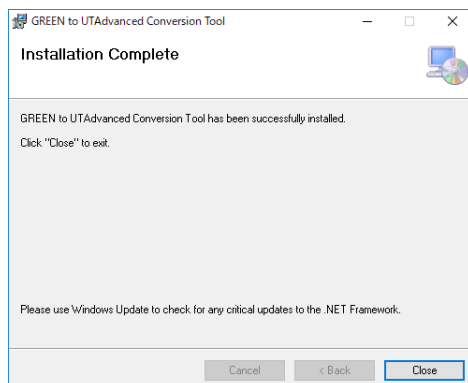
● Step 4

To start the installation, click the [Next] button.
To cancel installation, click the [Cancel] button.



● Step 5

Installation has been completed. Click the [Close] button.



2.2 Verifying Installation of the Tool

Verify that the **GREEN to UTAdvanced Conversion Tool** is registered.

For Windows 8.1

Click on Windows' [Start], select [All Programs], and then click on [GREEN to UTAdvanced Conversion Tool].

For Windows 10

Click [Start] → Apps → [GREEN to UTAdvanced Conversion Tool]

For Windows 11

Click [Start] → [All apps] → [GREEN to UTAdvanced Conversion Tool]

2.3 Uninstalling the Tool

From the **Start** of Windows, select **Control Panel > Programs and Features > GREEN to UTAdvanced Conversion Tool** and uninstall it.

The User Account Control screen appears. Click **Allow**. The GREEN to UTAdvanced Conversion Tool is uninstalled.

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3. Tool Startup and Data Conversion



IMPORTANT

- The GREEN to UTAdvanced Conversion Tool runs on a PC in which the LL50A Parameter Setting Software has been installed.
- If you have used an older version of this conversion tool, first uninstall it and then install the newest one.

3

Specifications of the BS and FL parameters under the PVS_L1 menu have been changed in the UT35A/UT32A parameter version R1.02.02. Therefore, if the parameter version of an LL50A user file created using the conversion tool differs from the parameter version of UT35A/UT32A, perform the following operation.

- **When a file converted using the R2.01.01 conversion tool is used in UT35A/UT32A whose parameter version is R1.02.02 or later**

Open the converted file in LL50A, download it to UT35A/UT32A, and then configure the following parameters in UT35A/UT32A.

- Set the BS and FL values under the PVS_L1 menu of LL50A to A.BS and A.FL under the PV menu of UT35A/UT32A.
- Change the BS parameter to 0 (BS=0) and the FL parameter to OFF (FL=OFF) under the PVS_L1 menu of UT35A/UT32A.
- Since changes were made in UT35A/UT32A, click Upload All in LL50A to save the file (to back up the data).

- **When a file created using a R3.01 or later conversion tool is used in UT35A/UT32A whose parameter version is R1.02.01 or earlier**

Open the converted file in LL50A, change the setting data in LL50A as shown below, and then download it to UT35A/UT32A.

- Set the A.BS and A.FL values under the PV menu of LL50A to BS and FL under the PVS_L1 menu.

3.1 Starting Up the Tool and Converting Data

● Step 1

For Windows 8.1

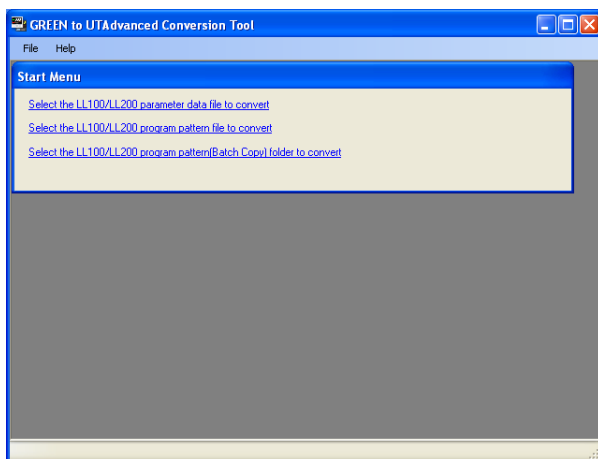
Click on Windows' [Start], select [All Programs], and then click on [GREEN to UTAdvanced Conversion Tool].

For Windows 10

Click [Start] → Apps → [GREEN to UTAdvanced Conversion Tool]

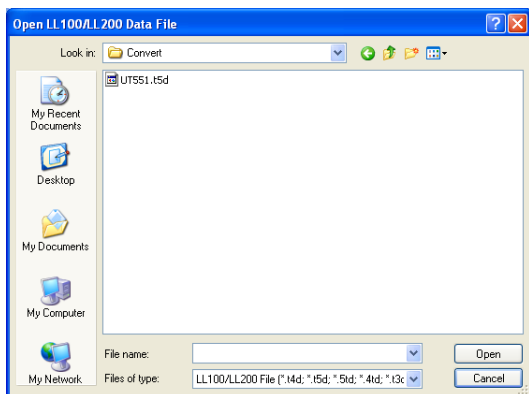
For Windows 11

Click [Start] → [All apps] → [GREEN to UTAdvanced Conversion Tool]



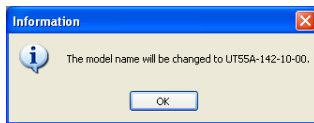
● Step 2

Click on the [Select LL100/LL200 parameter data file to convert] to display the Open LL100/LL200 Data File window. For the information about extensions available, see "1.2 Models Targeted for Conversion." The folder in which the file is stored can be changed as described in 3.4, Making Environmental Settings.



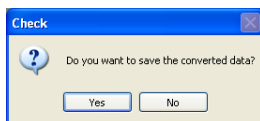
Step 3

Select the file to be converted and click the [Open] button. The applicable model and suffix code after conversion will be displayed.



Step 4

Click the [OK] button to perform conversion. To save converted data in a file, click [Yes]. To return to the first window, click [No].



If an error occurs during conversion, the Conversion Error List window is displayed before the storage confirmation message is displayed. The conversion error list is output to a file in csv format (file name: LL100/LL200 file name_date, hr, min, sec.csv). For the folder in which converted data is saved, see 3.4, Making Environmental Settings.

Conversion Error List window with a blue header and a close button (X). It displays a table with 5 columns: No., Pre-Conversion Parameter, Pre-Conversion Data, Post-Conversion Parameter, Post-Conversion Data, and Conversion Error Classification. The table contains 11 rows of data.

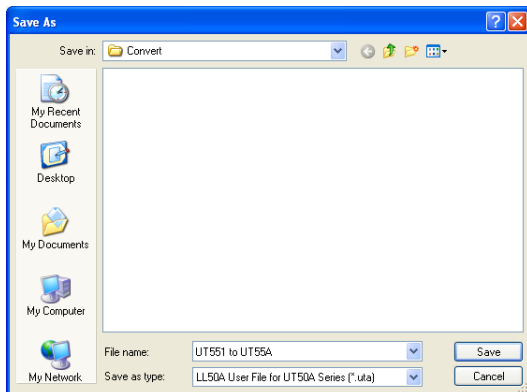
No.	Pre-Conversion Parameter	Pre-Conversion Data	Post-Conversion Parameter	Post-Conversion Data	Conversion Error Classification
1	ZON	3	ZON	0	No convertible setpoint.
2	U3	4	PV.2C	0	Pre-Conversion Setpoint Error
3	A/M.1	5017	A/M-D	5025	No convertible setpoint.
4	S/R	5019	S/R-D	5026	No convertible setpoint.
5	MAN	5025	MAN-D	0	No convertible setpoint.
6	LCL.1	5041	LCL.L1-D	0	No convertible setpoint.
7	SP.b1	5029	SP.B1-D	0	No convertible setpoint.
8	PID.b0	5033	PN.B0-D	0	No convertible setpoint.
9	PID.b2	5035	PN.B2-D	0	No convertible setpoint.
10	AL2.1	25	AL2.T.L1	2	No convertible setpoint.
11	U2	-123.5	PV.LL	-123.4	Over Limit

At the bottom right of the window are "OK" and "Print" buttons.

For the details of error, see the Chapter 4.

● Step 5

Specify the folder to which the converted data file is to be stored. The folder in which the file is stored can be changed as described in 3.4, Making Environmental Settings.



The file type for UT400 or UT500 series after conversion: LL50A User file for UT50A series (*.uta)

The file type for UT300 series after conversion: LL50A User file for UT30A series (*.utb)

The file type for UP550 after conversion: LL50A User file for UP50A series (*.upa)

● Step 6

To finish data conversion, assign a file name and save the file. After conversion, read the file using LL50A and check the contents before using the file.

TIP

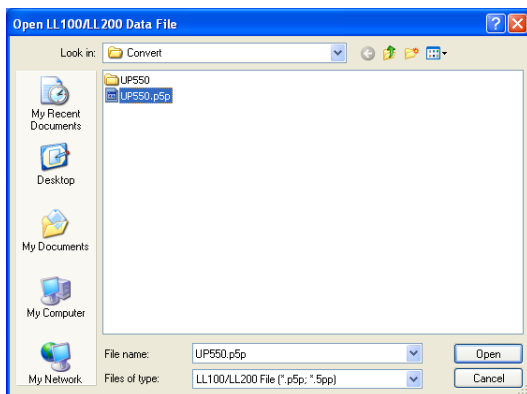
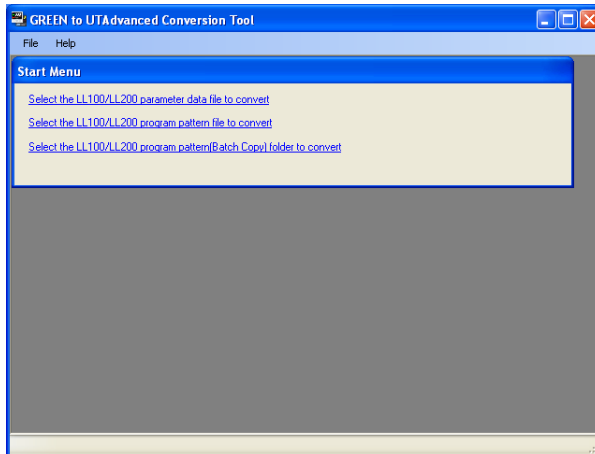
For how to use the LL50A parameter setting software, see the LL50A Parameter Setting Software User's Manual (IM 05P05A01-02EN.)

3.2 Converting One Program Pattern File

• Step 1

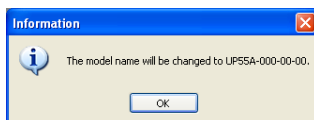
Click on the [Select the LL100/LL200 program pattern file to convert] to display the Open LL100/LL200 Data File window.

For the information about extensions available, see "1.2 Models Targeted for Conversion." The folder in which the file is stored can be changed as described in 3.4, Making Environmental Settings.



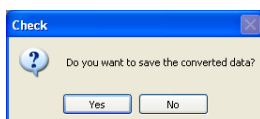
• Step 2

Select the file to be converted and click the [Open] button. The applicable model and suffix code after conversion will be displayed.



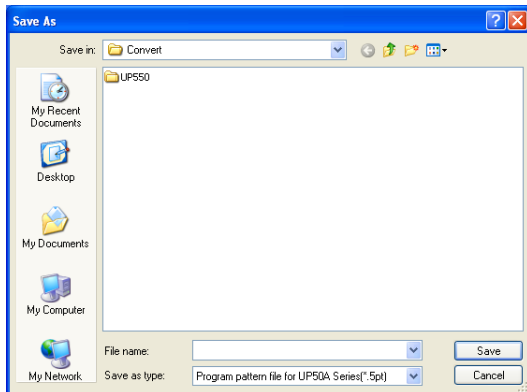
• Step 3

Click the [OK] button to perform conversion. To save converted data in a file, click [Yes]. To return to the first window, click [No].



- **Step 4**

Specify the folder to which the converted data file is to be stored. The folder in which the file is stored can be changed as described in 3.4, Making Environmental Settings.



The file type for UP550/UP750 after conversion: Program pattern file for UP50A series (*.5pt)

- **Step 5**

To finish data conversion, assign a file name and save the file.

In LL50A, retrieve the LL50A user file for UP50A series converted in section 3.1, and then click on the LL50A menu commands [File] – [Open program pattern file] – [One pattern file] to retrieve the converted program pattern file for UP50A series, and check the settings before using the file.

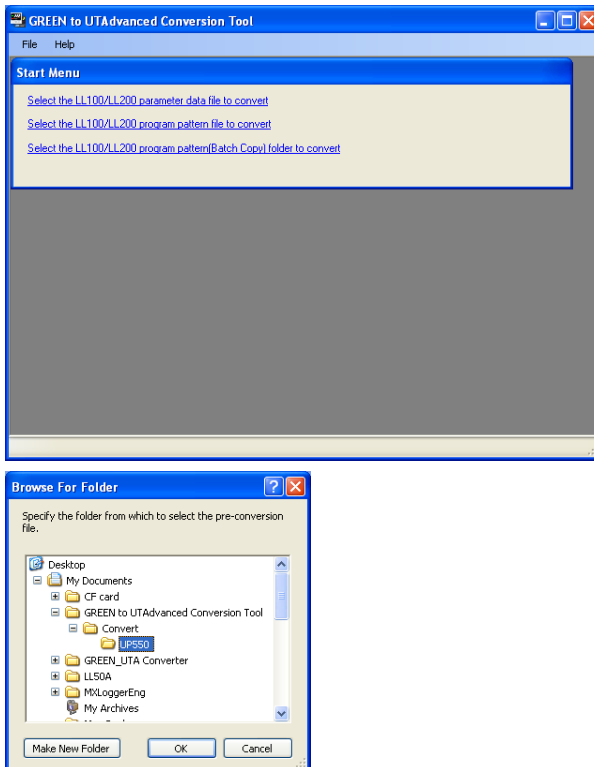
TIP

For how to use the LL50A parameter setting software, see the LL50A Parameter Setting Software User's Manual (IM 05P05A01-02EN.)

3.3 Converting Program Pattern File Created Using LL100/LL200 Batch Copy Function

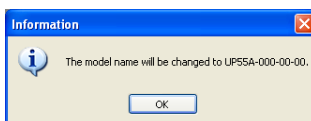
● Step 1

Click on the [Select the LL100/LL200 program pattern (Batch Copy) folder to convert] to display the Browse For Folder window.



● Step 2

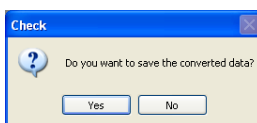
Select the folder in which the program pattern file created using the LL100/LL200 batch copy function is stored, and then click on the [OK] button to display the model and suffix-code after the conversion.



Note: The names of the files to convert are PTN001.p5p to PTN030.p5p.

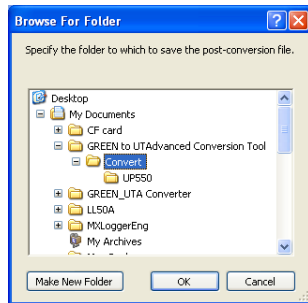
● Step 3

Click the [OK] button to perform conversion. To save converted data in a file, click [Yes]. To return to the first window, click [No].



- **Step 4**

Specify the folder to which the converted data file is to be stored. The folder in which the file is stored can be changed as described in 3.4, Making Environmental Settings.



The file type for UP550/UP750 after conversion: Program pattern file for UP50A series (*.5pt)

- **Step 5**

To finish data conversion, assign a file name and save the file.

In LL50A, retrieve the LL50A user file for UP50A series converted in section 3.1, and then click on the LL50A menu commands [File] – [Open program pattern file] – [All pattern files] to retrieve the converted program pattern file for UP50A series, and check the settings before using the file.

TIP

For how to use the LL50A parameter setting software, see the LL50A Parameter Setting Software User's Manual (IM 05P05A01-02EN.)

3.4 Making Environmental Settings

The storage location for the Pre-conversion Data File, Conversion User File, Conversion Error Data File, and Conversion Program Pattern File can be set beforehand.



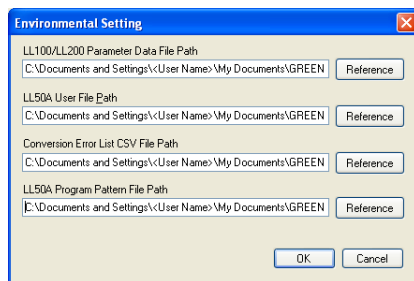
IMPORTANT

Do not set a path that includes the Program Files folder. Otherwise, the GREEN to UTAdvanced Conversion Tool will not run properly.

3

● Step 1

Click on [File] – [Environmental Setting] in the menu to display the Environmental Setting window.



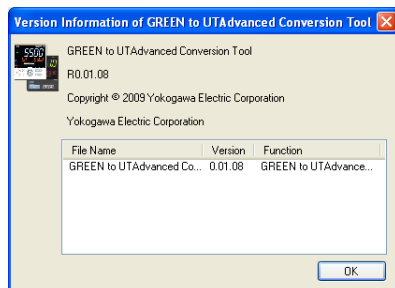
● Step 2

Set the path for each file and click the [OK] button.

3.5 Checking Tool Version

● Step 1

Click on [Help] – [Version Information] in the menu to display the Version Information of GREEN to UTAdvanced Conversion Tool window.



● Step 2

Confirm the version, click the [OK] button.

Blank Page

4. Conversion Error

A parameter regarded as a conversion error will be displayed in the Conversion Error List window. After conversion, check the setting contents on LL50A and re-set the relevant parameter as necessary.

During the conversion, a change of parameter symbol or name will not be regarded as a conversion error. Even if the parameter setpoint is changed, when the function and the specification are not changed, it is not treated as a conversion error. For more information on parameter names, setting range, defaults, etc., see the respective User's Manuals.

TIP

For how to use the LL50A parameter setting software, see the LL50A Parameter Setting Software User's Manual (IM 05P05A01-02EN.)

4

<UT300>:	for UT350, UT320, UT351 or UT321
<UT351>:	for UT351
<UT400>:	for UT450 or UT420
<UT500>:	for UT550, UT520, or UT551
<UT551>:	for UT551
<UP550>:	for UP550
<UP750>:	for UP750

4.1 Parameters Treated as Conversion Errors

Conversion error classification and remedy

Conversion Error Classification	Remedy
Over Limit	Re-set the parameter because the value after conversion has been set to factory default of the UTAdvanced.
Pre-Conversion Setpoint Error	
No Convertible Setpoint.	
Change Setpoint	SMP =500ms is changed SMP =200ms. Check the specifications.

(1) Control Period <UT500><UP550>

[Conversion Error Classification: Change Setpoint]

- GREEN : **SMP** = 500 ms
- UTAdvanced : Converted to **SMP** = 200 ms

(2) Control Output <UT500><UP550>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : **OT1** or **OT2**
- UTAdvanced : **CNT**, **OT.H**

If the control output type is set to **OT1** or **OT2** = 3 (ON/OFF control relay contact output) in the controller mode **UTM** or **UPM** ≠ 1 (control other than single-loop control), the parameter data is converted into control type **CNT** = 0 (PID control) and output type selection **OT.H** = 3 (OUT terminal relay).

(3) Alarm Type <UT300>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : **AL1** to **AL3**
- UTAdvanced : **AL1.T** to **AL3.T**, **AL1.W** to **AL3.W**, **AL1.D** to **AL3.D**

* Alarm type parameters are converted to three setting parameters on LL50A.

If the sensor grounding alarm, heater burnout alarm 1, heater burnout alarm 2, heater burnout alarm 1,2, control output value high limit (*1), and control output value low limit (*1) have been set to alarm types **AL1** to **AL3**, the default (PV high-limit alarm or PV low-limit alarm) will be set. If the alarm types becomes the default, the values are not converted but the defaults are set also to the hysteresis, delay timer, and alarm setpoint. (See (9) Alarm Type in 4.2, Special Conversion Specifications.)

(*1)

The control output type **OT1** = either from 4 to 12

(4) Alarm Type <UT400><UT500><UP550>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : **AL1** to **AL4**
- UTAdvanced : **AL1.T** to **AL4.T**, **AL1.W** to **AL4.W**, **AL1.D** to **AL4.D**

* Alarm type parameters are converted to three setting parameters on LL50A.

If the sensor grounding alarm, timer function (*2), control output value high limit (*3), and control output value low limit (*3) have been set to alarm types **AL1** to **AL4**, the default (PV high-limit alarm or PV low-limit alarm) will be set. If the alarm types becomes the default, the values are not converted but the defaults are set also to the hysteresis, delay timer (*2), and alarm setpoint. (See (10) Alarm Type in 4.2, Special Conversion Specifications.)

In the controller mode **UPM** ≠ 4 (control other than cascade control), if the loop-2 alarm type (41 to 60, 66, and 68 to 71) have been set to alarm types **AL1** to **AL4**, the default (PV high-limit alarm or PV low-limit alarm) will be set to the loop-1 alarm type. If the alarm types becomes the default, the values are not converted but the defaults are set also to the hysteresis and alarm setpoint.

(*2)

Not available for UP550.

(*3)

In the case of <UT400> and <UT500>

If the control output type **OT2** = either from 4 to 12 and loop-2 alarm types **AL1** to **AL4** = 30 or 31 in the controller mode **UTM** = 4 (cascade control)

Alternatively, if the control output type **OT1** = either from 4 to 12 and loop-1 alarm types **AL1** to **AL4** = 30 or 31 in the controller mode **UTM** ≠ 2 (control other than cascade primary-loop control) or **UTM** ≠ 4 (control other than cascade control)

In the case of <UP550>

If the control output type **OT2** = either from 4 to 12 and alarm types **AL1** to **AL4** = 70 or 71 in the controller mode **UPM** = 4 (cascade control)

Alternatively, if the control output type **OT1** = either from 4 to 12 and alarm types **AL1** to **AL4** = 30 or 31 in the controller mode **UPM** ≠ 2 (control other than cascade primary-loop control) or **UPM** ≠ 4 (control other than cascade control)

(5) Zone Control <UT551>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : **ZON** = 3
- UTAdvanced : Converted to **ZON** = 0 (SP group number selection method 1)

Use this parameter in combination with parameter **PIDN**.

(6) SELECT Display <UT300>

[Conversion Error Classification: Over Limit, No Convertible Setpoint]

- GREEN : **C.S1** to **C.S4**
- UTAdvanced : **CS1** to **CS4**

If the register number before conversion is the range of 1 to 200 or 1016 to 9999, a no convertible setpoint error occurs, causing the default to be set.

If the register number after conversion is out of the range of 2301 to 5000, an over limit conversion error occurs, causing the default to be set. If the register number after conversion are within the range of 2301 to 5000 and there is no function in UTAdvanced, the conversion error "No Convertible Setpoint" occurs and the defaults are set.

(7) SELECT Display <UT400><UT500><UP550>

[Conversion Error Classification: Over Limit, No Convertible Setpoint]

- GREEN : **C.S1** to **C.S5**
- UTAdvanced : **CS1** to **CS5**

If the register number after conversion is out of the range of 2301 to 5000 (for UP550: 2201 to 5000), an over limit conversion error occurs, causing the default to be set. If the register number after conversion are within the range of 2301 to 5000 (for UP550: 2201 to 5000) and there is no function in UTAdvanced, the conversion error "No Convertible Setpoint" occurs and the defaults are set.

(8) DO Function <UT500><UP550>

[Conversion Error Classification: Over Limit, No Convertible Setpoint]

- GREEN : **DO1** to **DO7**
- UTAdvanced : **AL1.S** to **AL3.S**, **DO1.S** to **DO4.S** (E2-terminal area)

If the register number before conversion is out of the range of 5001 to 7048, an over limit conversion error occurs, causing the default to be set. If the register number before conversion are within the range of 5001 to 7048 and there is no function in UTAdvanced, the conversion error "No Convertible Setpoint" occurs and the defaults are set.

(9) DI Function <UT500>

[Conversion Error Classification: Over Limit, No Convertible Setpoint]

- GREEN : **A/M.1**, **L-R/L.1**, **S/R**, **CAS**, **AUT**, **MAN**, **SP.b0**, **SP.b1**, **SP.b2**, **SP.b3**, **PID.b0**, **PID.b1**, **PID.b2**, **PID.b3**, **REM**, **LCL**
- UTAdvanced : **A/M**, **R/L**, **S/R**, **CAS**, **AUTO**, **MAN**, **SP.B0**, **SP.B1**, **SP.B2**, **SP.B3**, **PN.B0**, **PN.B1**, **PN.B2**, **PN.B3**, **REM**, **LCL**

If the register number before conversion is out of the range of 5001 to 7048, an over limit conversion error occurs, causing the default to be set. If the register number before conversion are within the range of 5001 to 7048 and there is no function in UTAdvanced, the conversion error "No Convertible Setpoint" occurs and the defaults are set.

(10) DI Function <UP550>

[Conversion Error Classification: Over Limit, No Convertible Setpoint]

- GREEN : **PROG, RESET, LOCAL, HOLD, ADV, A/M.1, A/M.2, LSP/CAS, PTNO.b0, PTNO.b1, PTNO.b2, PTNO.b3, PTNO.b4, MG1, MG2, MG3, MG4**
- UTAdvanced : **PRG, RST, LOC, HOLD, ADV, A/M (A/M_L1-D), A/M (A/M_L2-D), L/C, PT.B0, PT.B1, PT.B2, PT.B3, PT.B4, MG1, MG2, MG3, MG4**

If the register number before conversion is out of the range of 5001 to 7048, an over limit conversion error occurs, causing the default to be set. If the register number before conversion are within the range of 5001 to 7048 and there is no function in UTAdvanced, the conversion error "No Convertible Setpoint" occurs and the defaults are set.

(11) Input Switching Range and Action in Loop Control with PV Switching <UT500><UP550>

[Conversion Error Classification: Over Limit, Pre-Conversion Setpoint Error]

- GREEN : **U1, U2, U3**
- UTAdvanced : **PV.HL, PV.LL, PV.2C**

If input switching range **U1** or **U2** is out of the range of **PV.HL** and **PV.LL**, an over limit conversion error occurs, causing the default to be set. **PV.HL** and **PV.LL** are determined depending on the PV input range. If input switching action **U3** is out of the **PV.2C** range, a Pre-Conversion Setpoint Error occurs, causing the default to be set.

(12) Input Computation in Loop Control with PV Auto-selector <UT500><UP550>

[Conversion Error Classification: Pre-Conversion Setpoint Error]

- GREEN : **U1**
- UTAdvanced : **PV.AS**

If input selection action **U1** is out of the **PV.AS** range, a conversion error occurs, causing the default to be set.

(13) 10-segment Linearizer <UT500><UP550>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : No conversion parameter
- UTAdvanced : **PYS** (Group 2)

When controller mode **UTM** or **UPM** = 4 (cascade control), PYS2 10-segment linearizer selection results in a conversion error in some cases. If a conversion error occurs, all group-2 10-segment linearizer parameters are set to the defaults.

(14) 10-segment Linearizer <before Enhanced UT500><UP550>

[Conversion Error Classification: Over Limit]

- GREEN : **1.A1 to 1.A11, 1.B1 to 1.B11** (PYS1 menu)
2.A1 to 2.A11, 2.B1 to 2.B11 (PYS2 menu)
- UTAdvanced : **A1 to A11, B1 to B11** (10-segment Linearizer of the group 1 and 2)

If 10-segment linearizer data before conversion is out of the range of 10-segment linearizer inputs **A1** to **A11** or 10-segment linearizer outputs **B1** to **B11**, a conversion error occurs, causing the defaults to be set.

(15) External RJC Setpoint <UT300><UT500>

[Conversion Error Classification: Over Limit]

- GREEN : **ERJC**
- UTAdvanced : **ERJC**

When External RJC setpoint **EJRC** = -50.0 to -10.1 °C, (-58.0 to 13.9 °F), the parameter **ERJC** is set to the defaults.

(16) DI Function Selection <UT300>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : **DIS**
- UTAdvanced : **A/M, S/R, SP.B0, SP.B1, SP.B2, SP.BC**

When DI function selection **DIS** = 2, an error occurs. Parameters are set to the defaults.

(17) Junction Cord <UP750>

[Conversion Error Classification: No Convertible Setpoint]

- GREEN : **JC=131 to 300**
- UTAdvanced : **JC=CONT**

Patterns 131 to 300 are set to CONT (continuous switching).

4.2 Special conversion Specification

This section describes the main parameters that are specially converted when parameter data is converted from the GREEN series to UTAdvanced series. After conversion, check the converted contents.

(1) Control Period <UT400>

- GREEN : No conversion parameter
- UTAdvanced : Converted to **SMP** = 200 ms

Converted to control mode **CTLM** = SGL (single-loop control).

(2) Control Output Type <UT300><UT400><UT500><UP550>

- GREEN : **OT1** or **OT2**
- UTAdvanced : Converted to **CNT**, **OT.H**, or **OT.C**.

Standard Type and Heating/cooling Type

GREEN		UTAdvanced		
Control output type OT1 or OT2	Condition (*1)	Control type CNT	Heating-side output type selection OT.H	Cooling-side output type selection OT.C
	Control mode CTL.M			
0: Time proportional PID relay contact output	Independent	0 (PID control)	03: OUT terminals (relay)	-
1: Time proportional PID voltage pulse output			01: OUT terminals (voltage pulse)	-
2: Current output			02: OUT terminals (current)	-
3: ON/OFF control relay contact output	CTL.M =1 (Single- loop control)	1 (ON/OFF control, 1 point of hysteresis)	03: OUT terminals (relay)	-
	CTL.M #1 (other than Single-loop control)	0 (PID control) (*1)		-
4: Heating-side relay output, cooling-side relay output	CTL.M #2 (other than Cascade primary-loop control)	4 (Heating/ cooling control)	03: OUT terminals (relay)	06: OUT2 terminals (relay)
5: Heating-side pulse output, cooling-side relay output			01: OUT terminals (voltage pulse)	
6: Heating-side current output, cooling-side relay output			02: OUT terminals (current)	
7: Heating-side relay output, cooling-side pulse output			03: OUT terminals (relay)	For UT55A/ UT52A/UP55A; 04: OUT2 terminals (voltage pulse)
8: Heating-side pulse output, cooling-side pulse output			01: OUT terminals (voltage pulse)	
9: Heating-side current output, cooling-side pulse output			02: OUT terminals (current)	
10: Heating-side relay output, cooling-side current output			03: OUT terminals (relay)	For UT55A/ UT52A/UP55A; 05: OUT2 terminals (current)
11: Heating-side pulse output, cooling-side current output			01: OUT terminals (voltage pulse)	
12: Heating-side current output, cooling-side current output			02: OUT terminals (current)	
4 to 12	CTL.M =2 (Cascade primary-loop control)	0 (PID control)	Same as Heating/ cooling control	-

*1: Not applicable for UT300.

Position proportional type (Not applicable for UT300.)

GREEN	UTAdvanced			
Control output type OT1 or OT2	Condition	Control type CNT	Heating-side output type selection OT.H	Cooling-side output type selection OT.C
	Control mode CTLM			
-	Independent	0 (PID control)	-	-

(3) Input Type <UT300>

- GREEN : IN
- UTAdvanced : IN

GREEN	UTAdvanced
Input Type IN	PV Input Type IN
19 to 29	1
32 to 34, 38, 39	30
42 to 49, 52 to 54, 57 to 59	40
Other than above.	This parameter is converted in accordance with GREEN series specifications.

(4) Input Range <UT300>

- GREEN : RH, RL
- UTAdvanced : RH, RL

If the ranges of the GREEN series and UTAdvanced are different on the display digit, the decimal point is converted so that the position will be the same.

(5) Unit <UT400>

- GREEN : UN1 = %
- UTAdvanced : Converted to UNIT = - (no unit)

(6) Unit <UT500><UP550>

- GREEN : UN1, UN3, P.U1, P.U2 = %
- UTAdvanced : Converted to UNIT = - (no unit)

(7) Decimal Point Position <UT400>

- GREEN : DPC = ON
- UTAdvanced : Converted to P.DP, P.RH, or P.RL in accordance with the GREEN series specifications.

(8) Number of alarms <UT300>

The number of alarms (ALNO.) is changed in accordance with the setting of Control type selection (OT1). If OT1 = 0 to 3, or 7 to 12, the ALNO. is set to 3. If OT1 = 4 to 6, the ALNO. is set to 2.

(9) Alarm Type <UT300>

- GREEN : **AL1** to **AL3**
- UTAdvanced : Converted to **AL1.T** to **AL3.T**, **AL1.W** to **AL3.W**, **AL1.D** to **AL3.D**

* Alarm type parameters are converted to three setting parameters on LL50A.

GREEN	UTAdvanced
AL1	AL1.T (Alarm-1 type), AL1.W (Alarm-1 stand-by action), AL1.D (Alarm-1 energized/de-energized)
AL2	AL2.T (Alarm-2 type), AL2.W (Alarm-2 stand-by action), AL2.D (Alarm-2 energized/de-energized)
AL3	AL3.T (Alarm-3 type), AL3.W (Alarm-3 stand-by action), AL3.D (Alarm-3 energized/de-energized)

Alarm Type Setpoint Conversion

n=1 to 3, m=1 to 3

GREEN	UTAdvanced		
ALn	ALm.T	ALm.W	ALm.D
0	0	Initial value	Initial value
1	1	0	0
2	2	0	0
3	5	0	0
4	6	0	0
5	5	0	1
6	6	0	1
7	7	0	0
8	8	0	0
9	1	0	1
10	2	0	1
11	1	1	0
12	2	1	0
13	5	1	0
14	6	1	0
15	5	1	1
16	6	1	1
17	7	1	0
18	8	1	0
19	1	1	1
20	2	1	1
21	30	Initial value	0

GREEN	UTAdvanced		
ALn	ALm.T	ALm.W	ALm.D
22	31	Initial value	0
23	Initial value	Initial value	Initial value
24	Initial value	Initial value	Initial value
25	Initial value	Initial value	Initial value
26	Initial value	Initial value	Initial value
-	-	-	-
28	3	0	0
29	4	0	0
30	15 if control type CNT = 0 or CNT = 1 Default if CNT = 4	Initial value	0
31	16 if control type CNT = 0 or CNT = 1 Default if CNT = 4	Initial value	0
33	11	0	0
34	12	0	0
35	11	0	1
36	12	0	1
37	13	0	0
38	14	0	0
43	11	1	0
44	12	1	0
45	11	1	1
46	12	1	1
47	13	1	0
48	14	1	0

* If **ALm.T** in the table above is converted to the default, it is treated as a conversion error. See 4.1, Parameters Treated as Conversion Errors.

(10) Alarm Type <UT400><UT500>

- GREEN : **AL1** to **AL4**
- UTAdvanced : Converted to **AL1.T** to **AL4.T**, **AL1.W** to **AL4.W**, **AL1.D** to **AL4.D**

* Alarm type parameters are converted to three setting parameters on LL50A.

GREEN	UTAdvanced
AL1	AL1.T (Alarm-1 type), AL1.W (Alarm-1 stand-by action), AL1.D (Alarm-1 energized/de-energized)
AL2	AL2.T (Alarm-2 type), AL2.W (Alarm-2 stand-by action), AL2.D (Alarm-2 energized/de-energized)
AL3	AL3.T (Alarm-3 type), AL3.W (Alarm-3 stand-by action), AL3.D (Alarm-3 energized/de-energized)
AL4	AL4.T (Alarm-4 type), AL4.W (Alarm-4 stand-by action), AL4.D (Alarm-4 energized/de-energized)

Alarm Type Setpoint Conversion

n=1 to 4, m=1 to 8

GREEN	UTAdvanced		
ALn	ALm.T	ALm.W	ALm.D
0	0	Initial value	Initial value
1	1	0	0
2	2	0	0
3	5	0	0
4	6	0	0
5	5	0	1
6	6	0	1
7	7	0	0
8	8	0	0
9	1	0	1
10	2	0	1
11	1	1	0
12	2	1	0
13	5	1	0
14	6	1	0
15	5	1	1
16	6	1	1
17	7	1	0
18	8	1	0
19	1	1	1
20	2	1	1
21	Initial value	Initial value	Initial value

GREEN	UTAdvanced		
ALn	ALm.T	ALm.W	ALm.D
22	Initial value	Initial value	Initial value
23	Initial value	Initial value	Initial value
24	Initial value	Initial value	Initial value
25	Initial value	Initial value	Initial value
26	30	Initial value	0
27	31	Initial value	0
28	3	Initial value	0
29	4	Initial value	0
30	27 for position proportional 15 if control type CNT = 0 or CNT = 1 Default if CNT = 4	Initial value	0
31	28 for position proportional 16 if control type CNT = 0 or CNT = 1 Default if CNT = 4	Initial value	0
33	11	0	0
34	12	0	0
35	11	0	1
36	12	0	1
37	13	0	0
38	14	0	0
43	11	1	0
44	12	1	0
45	11	1	1
46	12	1	1
47	13	1	0
48	14	1	0

* If **ALm.T** in the table above is converted to the default, it is treated as a conversion error. See 4.1, Parameters Treated as Conversion Errors.

(11) Alarm Type <UP550>

- GREEN : **AL1** to **AL4**
- UTAdvanced : Converted to **AL1.T** to **AL4.T**, **AL1.W** to **AL4.W**, **AL1.D** to **AL4.D**

* Alarm type parameters are converted to three setting parameters on LL50A.

GREEN	UTAdvanced
AL1	AL1.T (Alarm-1 type), AL1.W (Alarm-1 stand-by action), AL1.D (Alarm-1 energized/de-energized)
AL2	AL2.T (Alarm-2 type), AL2.W (Alarm-2 stand-by action), AL2.D (Alarm-2 energized/de-energized)
AL3	AL3.T (Alarm-3 type), AL3.W (Alarm-3 stand-by action), AL3.D (Alarm-3 energized/de-energized)
AL4	AL4.T (Alarm-4 type), AL4.W (Alarm-4 stand-by action), AL4.D (Alarm-4 energized/de-energized)

4

Loop-1 Alarm Type Setpoint Conversion

n=1 to 4, m=1 to 4

GREEN	UTAdvanced		
ALn	ALm.T_L1	ALm.W_L1	ALm.D_L1
0	0	Initial value	Initial value
1	1	0	0
2	2	0	0
3	5	0	0
4	6	0	0
5	5	0	1
6	6	0	1
7	7	0	0
8	8	0	0
9	1	0	1
10	2	0	1
11	1	1	0
12	2	1	0
13	5	1	0
14	6	1	0
15	5	1	1

GREEN	UTAdvanced		
ALn	ALm.T_L1	ALm.W_L1	ALm.D_L1
16	6	1	1
17	7	1	0
18	8	1	0
19	1	1	1
20	2	1	1
25	Initial value	Initial value	Initial value
26	30	Initial value	0
27	31	Initial value	0
28	3	Initial value	0
29	4	Initial value	0
30	15 for position proportional type and UPM = 4 27 for position proportional type and UPM ≠ 4 15 for standard type or heating/cooling type, and CNT = 0 or 1 Default for standard type or heating/cooling type, and CNT = 4	Initial value	0
31	16 for position proportional type and UPM = 4 28 for position proportional type and UPM ≠ 4 16 for standard type or heating/cooling type, and CNT = 0 or 1 Default for standard type or heating/cooling type, and CNT = 4	Initial value	0
67	31	Initial value	0

* If **ALm.T_L1** in the table above is converted to the default, it is treated as a conversion error. See 4.1, Parameters Treated as Conversion Errors.

Loop-2 Alarm Type Setpoint Conversion

n=1 to 4, m=1 to 4

GREEN	UTAdvanced		
ALn	ALm.T_L2	ALm.W_L2	ALm.D_L2
41	1	0	0
42	2	0	0
43	5	0	0
44	6	0	0
45	5	0	1
46	6	0	1
47	7	0	0
48	8	0	0
49	1	0	1
50	2	0	1
51	1	1	0
52	2	1	0
53	5	1	0

GREEN	UTAdvanced		
ALn	ALm.T_L2	ALm.W_L2	ALm.D_L2
54	6	1	0
55	5	1	1
56	6	1	1
57	7	1	0
58	8	1	0
59	1	1	1
60	2	1	1
65	Initial value	Initial value	Initial value
66	30	Initial value	0
68	3	Initial value	0
69	4	Initial value	0
70	27 for position proportional type 15 for standard type or heating/ cooling type, and CNT = 0 Default for standard type or heating/cooling type, and CNT = 4	Initial value	0
71	28 for position proportional type 16 for standard type or heating/ cooling type, and CNT = 0 Default for standard type or heating/cooling type, and CNT = 4	Initial value	0

* If **ALm.T_L2** in the table above is converted to the default, it is treated as a conversion error. See 4.1, Parameters Treated as Conversion Errors.

(12) Alarm Setpoint <UT300>

When the alarm type **ALn** is set to 21 (Fault diagnosis output) or 22 (FAIL output), or when the conversion error (No Convertible Setpoint) occurs, the alarm setpoints are set to the default values.

n=1 to 3

Alarm Type for GREEN Series (ALn) = 0 to 3, 5, 7 to 13, 15, 17 to 20, 28 to 31, 33, 35, 37, 38, 43, 45, 47, 48		Alarm Type for GREEN Series (ALn) = 4, 14, 6, 16, 34, 44, 36, 46	
GREEN	UTAdvanced	GREEN	UTAdvanced
A1	Converted to A1 of each group.	A1	Converts a value with inverted sign to A1 of each group.
A2	Converted to A2 of each group.	A2	Converts a value with inverted sign to A2 of each group.
A3	Converted to A3 of each group. However, If OT1 = 4 to 6, can not be converted.	A3	Converts a value with inverted sign to A3 of each group. However, If OT1 = 4 to 6, can not be converted.

(13) Alarm Setpoint <UT400>

When the conversion error (No Convertible Setpoint) occurs on the alarm type **ALn**, the alarm setpoints are set to the default values.

n=1 to 4

Alarm Type (ALn) = 0 to 3, 5, 7 to 13, 15, 17 to 20, 26 to 31		Alarm Type (ALn) = 4, 14, 6, 16	
GREEN	UTAdvanced	GREEN	UTAdvanced
A1	Converted to A1 of each group.	A1	Converts a value with inverted sign to A1 of each group.
A2	Converted to A2 of each group.	A2	Converts a value with inverted sign to A2 of each group.
A3	Converted to A3 of each group.	A3	Converts a value with inverted sign to A3 of each group.
A4	Converted to A4 of each group.	A4	Converts a value with inverted sign to A4 of each group.

(14) Alarm Setpoint <UT500>

When the conversion error (No Convertible Setpoint) occurs on the alarm type **ALn**, the alarm setpoints are set to the default values.

n=1 to 4

Alarm Type (ALn) = 0 to 3, 5, 7 to 13, 15, 17 to 20, 26 to 31, 33, 35, 37 to 38, 43, 45, 47, 48		Alarm Type (ALn) = 4, 14, 6, 16, 34, 44, 36, 46	
GREEN	UTAdvanced	GREEN	UTAdvanced
1.A1 to 8.A1	Converted to A1 of each group.	1.A1 to 8.A1	Converts a value with inverted sign to A1 of each group.
1.A2 to 8.A2	Converted to A2 of each group.	1.A2 to 8.A2	Converts a value with inverted sign to A2 of each group.
1.A3 to 8.A3	Converted to A3 of each group.	1.A3 to 8.A3	Converts a value with inverted sign to A3 of each group.
1.A4 to 8.A4	Converted to A4 of each group.	1.A4 to 8.A4	Converts a value with inverted sign to A4 of each group.

(15) Alarm Setpoint <UP550>

When the conversion error (No Convertible Setpoint) occurs on the alarm type **ALn**, the alarm setpoints are set to the default values.

n=1 to 4

Alarm Type (ALn) = 0 to 3, 5, 7 to 13, 15, 17 to 20, 26 to 31, 67		Alarm Type (ALn) = 4, 14, 6, 16	
GREEN	UTAdvanced	GREEN	UTAdvanced
A1	Converted to A1 of loop-1.	A1	Converts a value with inverted sign to A1 of loop-1.
A2	Converted to A2 of loop-1.	A2	Converts a value with inverted sign to A2 of loop-1.
A3	Converted to A3 of loop-1.	A3	Converts a value with inverted sign to A3 of loop-1.
A4	Converted to A4 of loop-1.	A4	Converts a value with inverted sign to A4 of loop-1.

Alarm Type (ALn) = 41 to 43, 45, 47 to 53, 55, 57 to 60, 66, 68 to 71		Alarm Type (ALn) = 44, 54, 46, 56	
GREEN	UTAdvanced	GREEN	UTAdvanced
A1	Converted to A1 of loop-2.	A1	Converts a value with inverted sign to A1 of loop-2.
A2	Converted to A2 of loop-2.	A2	Converts a value with inverted sign to A2 of loop-2.
A3	Converted to A3 of loop-2.	A3	Converts a value with inverted sign to A3 of loop-2.
A4	Converted to A4 of loop-2.	A4	Converts a value with inverted sign to A4 of loop-2.

(16) Eight Alarms <UT500>

- GREEN : **AMD** = 3, 4, 5
- UTAdvanced : Converted to **AMD** in accordance with the GREEN series specifications.

Set to the number of alarms **ALNO** = 8. The alarm type and alarm setpoint are converted as follows:

See item (10) for alarm-type setpoint conversion and item (14) for alarm setpoint conversion.

Alarm Type

	GREEN	UTAdvanced
Loop 1	AL1	AL1.T, AL1.W, AL1.D
	AL2	AL2.T, AL2.W, AL2.D
	AL3	AL3.T, AL3.W, AL3.D
	AL4	AL4.T, AL4.W, AL4.D
Loop 2	AL1	AL5.T, AL5.W, AL5.D
	AL2	AL6.T, AL6.W, AL6.D
	AL3	AL7.T, AL7.W, AL7.D
	AL4	AL8.T, AL8.W, AL8.D

Hysteresis

	GREEN	UTAdvanced
Loop 1	HY1	HY1
	HY2	HY2
	HY3	HY3
	HY4	HY4
Loop 2	HY1	HY5
	HY2	HY6
	HY3	HY7
	HY4	HY8

Delay Timer

	GREEN	UTAdvanced
Loop 1	DY1	DYN1
	DY2	DYN2
	DY3	DYN3
	DY4	DYN4
Loop 2	DY1	DYN5
	DY2	DYN6
	DY3	DYN7
	DY4	DYN8

Alarm Setpoint

	GREEN	UTAdvanced
Loop 1	1.A1 to 8.A1	A1 of each group
	1.A2 to 8.A2	A2 of each group
	1.A3 to 8.A3	A3 of each group
	1.A4 to 8.A4	A4 of each group
Loop 2	1.A1 to 8.A1	A5 of each group
	1.A2 to 8.A2	A6 of each group
	1.A3 to 8.A3	A7 of each group
	1.A4 to 8.A4	A8 of each group

(17) PID Group Number <UT500>

- GREEN : GRP
- UTAdvanced : Converted to SPGR. and PIDG. (the same value for each)

(18) PID Parameter for Reference Deviation <UT400><UT500><UP550>

- GREEN : GRP, n.P, n.I, n.D, n.OH, n.OL, n.MR, n.H, n.DR, n.Pc, n.Ic, n.Dc, n.Hc, n.DB, n.PO, n.Oc (n=GRP)
- UTAdvanced : P, I, D, OH, OL, MR, HYS, DR, Pc, Ic, Dc, HYSc, DB, PO, POc (Group R)

The parameters for Number of PID groups (GRP, n.P, n.I, n.D, n.OH, n.OL, n.MR, n.H, n.DR, n.Pc, n.Ic, n.Dc, n.Hc, n.DB, n.PO, and n.Oc) are converted to the Group R parameters (P, I, D, OH, OL, MR, HYS, DR, Pc, Ic, Dc, HYSc, DB, PO, POc) for each loop.

(19) Control Output Limiter for Heating/Cooling Control <UT300><UT500><UP550>

- GREEN : n.OH (Heating-side output high limit), n.OL (Cooling-side output high limit)
- UTAdvanced : n.OH is converted to OH of each group. n.OL is converted as described below:

If the control type after conversion is CNT = 4 (heating/cooling control) when controller mode UTM or UPM ≠ 4 (control other than cascade control), n.OL is converted to OHc. If the control type after conversion is CNT ≠ 4 (control other than heating/cooling control), it is converted to OL.

If the control type after conversion is CNT = 4 (heating/cooling control) when controller mode UTM or UPM = 4 (cascade control), the first loop is converted to OL, and the second loop is converted to OHc.

Moreover, if the control type after conversion is CNT ≠ 4 (control other than heating/cooling control), both the first and second loops are converted to OL.

Each group's OLc is set to the default. n = 1 to 8

(20) SELECT Display <UT300><UT400><UT500><UP550>

- GREEN : C.S1 to C.S5 (C.S1 to C.S4 for UT300)
- UTAdvanced : CS1 to CS5 (CS1 to CS4 for UT35A/UT32A)

If the register number after conversion are within the range of 2301 to 5000 (for UP550: 2201 to 5000) and there is the function in UTAdvanced, conversion is made.

(21) DO Function <UT500><UP550>

- GREEN : **DO1** to **DO7**
- UTAdvanced : Converted to **AL1.S** to **AL3.S**, **DO1.S** to **DO4.S** (E2-terminal area)

If the register number before conversion is within the range of 5001 to 7048 and there is a function in UTAdvanced, conversion is made.

GREEN	UTAdvanced
DO1	AL1.S
DO2	AL2.S
DO3	AL3.S
DO4	DO1.S
DO5	DO2.S
DO6	DO3.S
DO7	DO4.S

(22) DI Function <UT500>

- GREEN : **A/M.1**, **L-R/L.1**, **S/R**, **CAS**, **AUT**, **MAN**, **SP.b0**, **SP.b1**, **SP.b2**, **SP.b3**, **PID.b0**, **PID.b1**, **PID.b2**, **PID.b3**, **REM**, **LCL**
- UTAdvanced : **A/M**, **R/L**, **S/R**, **CAS**, **AUTO**, **MAN**, **SP.B0**, **SP.B1**, **SP.B2**, **SP.B3**, **PN.B0**, **PN.B1**, **PN.B2**, **PN.B3**, **REM**, **LCL**

These parameters are converted to each setpoint of the contact input parameters in accordance with the GREEN series specifications.

If the register number before conversion is within the range of 5001 to 7048 and there is the function in UTAdvanced, conversion is made.

GREEN	UTAdvanced
A/M.1	A/M
L-R/L.1	R/L
S/R	S/R
CAS	CAS
AUT	AUTO
MAN	MAN
SP.b0	SP.B0
SP.b1	SP.B1
SP.b2	SP.B2
SP.b3	SP.B3
PID.b0	PN.B0
PID.b1	PN.B1
PID.b2	PN.B2
PID.b3	PN.B3
REM	REM
LCL	LCL

(23) DI Function <UP550>

- GREEN : **PROG, RESET, LOCAL, HOLD, ADV, A/M.1, A/M.2, LSP/CAS, PTNO.b0, PTNO.b1, PTNO.b2, PTNO.b3, PTNO.b4, MG1, MG2, MG3, MG4**
- UTAdvanced : **PRG, RST, LOC, HOLD, ADV, A/M (A/M_L1-D), A/M (A/M_L2-D), L/C, PT.B0, PT.B1, PT.B2, PT.B3, PT.B4, MG1, MG2, MG3, MG4**

These parameters are converted to each setpoint of the contact input parameters in accordance with the GREEN series specifications.

If the register number before conversion is within the range of 5001 to 7048 and there is the function in UTAdvanced, conversion is made.

GREEN	UTAdvanced	Remarks
PROG	PRG	
RESET	RST	
LOCAL	LOC	
HOLD	HOLD	
ADV	ADV	
A/M.1	A/M (A/M_L1-D)	When controller mode UPM ≠ 4 (control other than cascade control), A/M.1 is converted to A/M (A/M_L1-D) .
A/M.2	A/M (A/M_L2-D)	When controller mode UPM = 4 (cascade control), A/M.2 is converted to A/M (A/M_L2-D) .
LSP/CAS	L/C	When controller mode UPM = 4 (cascade control), LSP/CAS is converted to L/C .
PTNO.b0	PT.B0	
PTNO.b1	PT.B1	
PTNO.b2	PT.B2	
PTNO.b3	PT.B3	
PTNO.b4	PT.B4	
MG1	MG1	
MG2	MG2	
MG3	MG3	
MG4	MG4	

(24) DI Function Selection <UT300>

This parameter is converted to the parameters of the DI function-assigned menu in accordance with the GREEN series specifications.

GREEN	UTAdvanced					
DIS	SP.BC	SP.B0	SP.B1	SP.B2	A/M	S/R
0	0	0	0	0	0	0
1	1	5025(DI1)	0	0	5026(DI2)	0
2	See 4.1 Parameters Treated as Conversion Errors.					
3	1	5025(DI1)	5026(DI2)	0	0	0
4	1	5025(DI1)	0	0	0	5026(DI2)

(25) DI Function Selection <UT400>

This parameter is converted to the parameters of the DI function-assigned menu in accordance with the GREEN series specifications.

UTAdvanced (UT55A/UT52A Suffix code: Type 2 = 0)

GREEN	UTAdvanced							
DIS	A/M	S.R	SP.B0	SP.B1	SP.B2	SP.B3	R/L	SP.BC
0	0	0	0	0	0	0	0	0
1	5025(DI1)	5026(DI2)	0	0	0	0	0	0
2	5025(DI1)	5027(DI3)	5026(DI2)	0	0	0	0	1
3	5027(DI3)	5025(DI1)	5026(DI2)	0	0	0	0	1
4	0	0	5025(DI1)	5026(DI2)	0	0	0	1

UTAdvanced (UT55A Suffix code: Type 2 = 1)

GREEN	UTAdvanced							
DIS	A/M	S.R	SP.B0	SP.B1	SP.B2	SP.B3	R/L	SP.BC
0	0	0	0	0	0	0	5046(DI16)	0
1	5025(DI1)	5026(DI2)	5073(DI31)	5074(DI32)	5075(DI33)	5076(DI34)	5046(DI16)	0
2	5025(DI1)	5027(DI3)	5026(DI2)	0	0	0	5046(DI16)	1
3	5027(DI3)	5025(DI1)	5026(DI2)	0	0	0	5046(DI16)	1
4	5074(DI32)	5073(DI31)	5025(DI1)	5026(DI2)	0	0	5046(DI16)	1

UTAdvanced (UT52A Suffix code: Type 2 = 1 or 2, or UT55A Suffix code: Type 2 = 2 or 4)

GREEN	UTAdvanced							
DIS	A/M	S.R	SP.B0	SP.B1	SP.B2	SP.B3	R/L	SP.BC
0	0	0	0	0	0	0	5046(DI16)	0
1	5025(DI1)	5026(DI2)	0	0	0	0	5046(DI16)	0
2	5025(DI1)	5027(DI3)	5026(DI2)	0	0	0	5046(DI16)	1
3	5027(DI3)	5025(DI1)	5026(DI2)	0	0	0	5046(DI16)	1
4	0	0	5025(DI1)	5026(DI2)	0	0	5046(DI16)	1

UTAdvanced (UT55A Suffix code: Type 2 = 3)

GREEN	UTAdvanced							
DIS	A/M	S.R	SP.B0	SP.B1	SP.B2	SP.B3	R/L	SP.BC
0	0	0	0	0	0	0	0	0
1	5025(DI1)	5026(DI2)	5041(DI11)	5042(DI12)	5043(DI13)	5044(DI14)	0	0
2	5025(DI1)	5027(DI3)	5026(DI2)	0	0	0	0	1
3	5027(DI3)	5025(DI1)	5026(DI2)	0	0	0	0	1
4	5042(DI12)	5041(DI11)	5025(DI1)	5026(DI2)	0	0	0	1

(26) Baud Rate of Ethernet-serial Gateway <UT351><UT551>

- GREEN : No conversion parameter (fixed to 9600 bps internally)
- UTAdvanced : The parameter **BPS**, Baud rate of Ethernet-serial Gateway, is converted to 9600 bps.

(27) Input Switching Range and Action in Loop Control with PV Switching <UT500><UP550>

- GREEN : **U1, U2, U3**
- UTAdvanced : Converted to **PV.HL, PV.LL, PV.2C**

(28) Input computation in Loop Control with PV Auto-selector <UT500><UP550>

- GREEN : **U1**
- UTAdvanced : Converted to **PV.AS**

(29) Security (LOCK) <UT500>

This parameter is converted to key-lock and menu lock parameters in accordance with the GREEN series specifications.

GREEN	UTAdvanced
DAT	DATA (key)
A/M	A/M (key)
MOD	MODE
LP1	SP, PVS, PID, TUNE, ZONE
LP2	SP, PVS, PID, TUNE, ZONE
PID	SP, PVS, PID, ZON (loop 1/loop 2)
USR	PPAR
PY1	PYS1
PY2	PYS2

(30) Security (LOCK) <UT400>

This parameter is converted to key-lock and menu lock parameters in accordance with the GREEN series specifications.

GREEN	UTAdvanced
DAT	DATA (key)
A/M	A/M (key)
R/L	MODE
PID	SP, PVS, PID, ZONE

(31) Security (LOCK) <UP550>

This parameter is converted to key-lock and menu lock parameters in accordance with the GREEN series specifications.

GREEN	UTAdvanced
▲ ▼	DATA (key)
PT.NO	PTN (key)
RUN	RUN, RST (key)
MODE	MODE
PRG	PROG, LOC, EDIT
LP1	SPS, PVS, PID, TUNE, MODE, ZONE
LP2	PVS, PID, TUNE, MODE, ZONE
PID	PID, ZONE (loop 1/loop 2)
USR	PPAR
PYS1	PYS1
PYS2	PYS2

(32) Program Pattern <UP750>

The program pattern for Loop-2 control is set to the UP55A transmission program pattern (PT.G=ON).

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May. 2010/2nd Edition

Error correction and supports the UT35A/UT32A.

Mar. 2011/3rd Edition

Addition of UP55A and supporting OS for Conversion Tool.

Aug. 2011/4th Edition

Functional improvement in DI conversion.

Mar. 2015/5th Edition

Supports the UP750 and Windows 8.1.

Jan. 2020/6th Edition

Supports Windows 10, deletes Windows 7.

Jul. 2022/7th Edition

Supports Windows 11.

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