# Information for Replacement of FR-U100 Series with FR-D700 Series

Size, connection, and parameters concerning replacement are stated on the following pages.

### 1. Size

When the FR-U100 series is replaced with the FR-D700 series, some FR-D700 series models have different installation size from that of the corresponding FR-U100 series models.

Specification	Existing inverter	Replacing inverter	Installation size
Standard type /	FR-U120-0.1K(-P)	FR-D720-0.1K	Same
Multifunction PU-operated type	FR-U120-0.2K(-P)	FR-D720-0.2K	Same
Three-phase 200V	FR-U120-0.4K(-P)	FR-D720-0.4 K	Same
IFZU	FR-U120-0.75K(-P)	FR-D720-0.75K	Same
	FR-U120-1.5K(-P)	FR-D720-1.5K	Same
Standard type	FR-U120-0.1K-C	FR-D720-0.1K	Same
Three-phase 200V	FR-U120-0.2K-C	FR-D720-0.2K	Same
1P40°1	FR-U120-0.4K-C	FR-D720-0.4 K	Same
	FR-U120-0.75K-C	FR-D720-0.75K	Same
	FR-U120-1.5K-C	FR-D720-1.5K	Same
Standard type /	FR-U120S-(N)0.1K	FR-D720S-0.1K	Same
Standard low-noise type	FR-U120S-(N)0.2K	FR-D720S-0.2K	Same
Single-phase 2000	FR-U120S-(N)0.4K	FR-D720S-0.4K	Same
	FR-U120S-(N)0.75K	FR-D720S-0.75K	Not compatible
Standard type /	FR-U110W-(N)0.1K	FR-D710W-0.1K	Same
Standard low-noise type	FR-U110W-(N)0.2K	FR-D710W-0.2K	Same
IP20	FR-U110W-(N)0.4K	FR-D710W-0.4K	Same
Multifunction type	FR-U120-0.1K-F	FR-D720-0.1K	Same
Three-phase 200V	FR-U120-0.2K-F	FR-D720-0.2K	Same
IP20	FR-U120-0.4K-F	FR-D720-0.4 K	Same
	FR-U120-0.75K-F	FR-D720-0.75K	Same
	FR-U120-1.5K-F	FR-D720-1.5K	Same
Multifunction type	FR-U120-0.1K-FC	FR-D720-0.1K	Same
Three-phase 200V	FR-U120-0.2K-FC	FR-D720-0.2K	Same
1P40"1	FR-U120-0.4K-FC	FR-D720-0.4 K	Same
	FR-U120-0.75K-FC	FR-D720-0.75K	Same
	FR-U120-1.5K-FC	FR-D720-1.5K	Same
Multifunction type /	FR-U120S-(N)0.1K-F	FR-D720S-0.1K	Same
Multifunction low-noise type	FR-U120S-(N)0.2K-F	FR-D720S-0.2K	Same
Single-phase 200V	FR-U120S-(N)0.4K-F	FR-D720S-0.4K	Same
11 20	FR-U120S-(N)0.75K-F	FR-D720S-0.75K	Not compatible
Multifunction type /	FR-U110W-(N)0.1K-F	FR-D710W-0.1K	Same
Multifunction low-noise type	FR-U110W-(N)0.2K-F	FR-D710W-0.2K	Same
IP20	FR-U110W-(N)0.4K-F	FR-D710W-0.4K	Same
Multifunction low-noise type	FR-U120-N0.1K-F	FR-D720-0.1K	Same
Three-phase 200V	FR-U120-N0.2K-F	FR-D720-0.2K	Same
IP20	FR-U120-N0.4K-F	FR-D720-0.4 K	Same
	FR-U120-N0.75K-F	FR-D720-0.75K	Not compatible
	FR-U120-N1.5K-F	FR-D720-1.5K	Same

For more information about the product size, refer to the outline dimension drawings.

\*1 When the protective structure of the existing inverter is IP40, consider the use of the IP20-rated inverter after replacement.

If the IP40-rated inverter is indispensable, consider the use of the FR-E700 inverter and the FR-E7CV[] option unit although the sizes are different.

Outline dimension drawings (Unit: mm) Standard type, three-phase 200V, IP20 Multifunction type, three-phase 200V, IP20 ■ FR-U120-0.1K to 0.75K(F)



A 81

86

101





Inverter Model	D	D1
FR-D720-0.1K, 0.2K	80.5	10
FR-D720-0.4K	112.5	42
FR-D720-0.75K	132.5	62

■ FR-U120-1.5K(F)



Standard type, three-phase 200V, IP40 Multifunction type, three-phase 200V, IP40 ■ FR-U120-0.1K to 0.75K-(F)C



■ FR-D720-1.5K



Inverter Model	W	W1	D	D1
FR-D720-1.5K	108	96	135.5	60

■ FR-D720-0.1K to 0.75K

\*1 Consider the use of the IP20-rated inverter.



Inverter Model	D	D1
FR-D720-0.1K, 0.2K	80.5	10
FR-D720-0.4K	112.5	42
FR-D720-0.75K	132.5	62



■ FR-D720-1.5K \*1 Consider the use of the IP20-rated inverter.



Standard type / Standard low-noise type, single-phase 200V, IP20 Multifunction type / Multifunction low-noise type, single-phase 200V, IP20





 Capacity
 A

 0.1K
 86

 0.2K
 101

 0.4K
 141

■ FR-U120S-(N)0.75K(-F)



#### ■ FR-D720S-0.1K to 0.75K



Inverter Model	D	D1
FR-D720S-0.1K, 0.2K	80.5	10
FR-D720S-0.4K	142.5	42
FR-D720S-0.75K	162.5	62

Standard type / Standard Iow-noise type, single-phase 100V, IP20 Multifunction type / Multifunction Iow-noise type, single-phase 100V, IP20

■ FR-U110W-(N)0.1K to 0.4K(-F)



#### ■ FR-D710W-0.1K to 0.4K



# Multifunction low-noise type, three-phase 200V, IP20

■ FR-U120-N0.1K to 0.4K-F

Hook hole for installation





 Capacity
 A

 0.1K
 86

 0.2K
 101

 0.4K
 121

Á

86

121

141

#### ■ FR-U120-N0.75K to 1.5K-F





#### ■ FR-D720-0.1K to 1.5K

Γ

L



Inverter Model	D	D1
FR-D720-0.1K, 0.2K	80.5	10
FR-D720-0.4K	112.5	42
FR-D720-0.75K	132.5	62



# Multifunction PU-operated type, three-phase 200V, IP20

#### ■ FR-U120-0.1K to 0.75K-P





\* 4.5 for 0.1K

#### ■ FR-U120-1.5K-P



#### ■ FR-D720-0.1K to 0.75K



Inverter Model	D	D1
FR-D720-0.1K, 0.2K	80.5	10
FR-D720-0.4K	112.5	42
FR-D720-0.75K	132.5	62





FR-D720-1.5K 108 96 135.5 60					
	FR-D720-1.5K	108	96	135.5	60

## 2. Connection

Terminal names are not the same. Ensure that correct terminals are connected.

Tv	ne	FR-U100 terminal name	FR-D700 terminal name	
		R S T (three-phase)	R/11 $S/12$ $T/13$ (three-phase)	
		R, S (single-phase)	R/L1, S/L2 (single-phase)	
		U, V, W	U, V, W	
Main	circuit		P/+, PR	
			P/+, N/-	
			P/+, P1	
			l 🕀	
		STF	STF	
		STR	STR	
		X1	RH	Multifunction type only
		X2	RM	
Control		X3	RL	
circuit input signal	Relay	SD	SD	Isolated from terminal 5 for the FR-D700. Not isolated from terminal 5 for the FR-U100.
		PC	PC	Multifunction type only
			S1	
			S2	
			SC	
		10	10	
		2	2	
Analog	Frequency		4	
7 thorog	setting	5	5	Isolated from terminal SD for the FR-D700. Not isolated from terminal SD for the FR-U100.
	Relay	A, B, C	A, B, C	Standard type: B, C
Control	Onon	RUN/SU/FU	RUN	Multifunction type only
circuit	collector	SD	SE	Terminal SE for the FR-D700. Isolated from terminal SD.
signal		FM	FM	Multifunction type only
	Analog	SD	SD	
PU Parameter unit		Connector	PU connector	Multifunction PU type only FR-PU03 and FR-DU01 cannot be used. Use FR-PU07 or FR-PA07. Change the connection cable from FR-CBL[] to FR-CB20[].
Operation setting		Key pad	Operation panel	

Main circuit terminal layout and connection example

The following shows the main circuit terminal layouts of the FR-U100 and FR-D700.

The shape and layout of main circuit terminals differ between the two series. Check the terminal names and positions before performing wiring.



Control circuit terminal layout

The following shows the control circuit terminal layouts of the FR-U100 and FR-D700. The shape and layout of control circuit terminals differ between the two series. Check the terminal names and positions before performing wiring.

FR-U100 standard type: Control circuit terminal layout and connection example



FR-U100 multifunction type: Control circuit terminal layout and connection example



Recommended wire size: 0.3 to 0.75mm<sup>2</sup>

Wire strip length: 8 to 10mm



Example of connection with a programmable controller

When an output module of the programmable controller is connected to the input terminal of the inverter and an input module to the output terminal while terminal PC is used, take either of the following actions to prevent the backflow current as is the case where terminal PC is not used.

(1) Insert a diode to prevent the backflow current.

(2) Use an all-point isolated type output module. (e.g. AY40A)
(3) Use a separate power source for the output module and the input module of the programmable controller.

#### ■ FR-D700: Control circuit terminal layout and connection example



## Example of connection with a programmable controller Sink logic



When crimp terminals are used for control wiring of the FR-U100 series, note that recommended crimp terminals are different for the FR-D700 series.

If the recommended crimp terminals are not applicable, consider the following.

- Change the wire strip length to 10mm and use bare wire instead of crimp terminals.

For details, refer to the Instruction Manual.

#### 3. Parameters

The following table shows the parameter settings required when replacing FR-U100 series inverters with FR-D700 series inverters. A double circle in "Setting" of "Description about parameter setting" shows that the setting of FR-U100 remains the same in FR-D700. A triangle shows that the parameter setting is different. Refer to the Instruction Manual to change the parameter setting. A dash shows that the parameter is not taken over. Set the parameter as required.

To display extended parameters, set Pr.160 = "0".

: The number or the function is different.

© The parameter setting remains the same.

 $\triangle$ : Change the setting to use the parameter.

--: Adjust or set the FR-D700 parameter.

ĺ		Inverter type FR-U100 parameter list FR-D700 parameter list										Description about parameter setting				
	Standard	Standard Low noise	Multifunction	Multifunction Low noise	Multifunction PU-operated	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks	
	0	0	0	0	0	0	Torque boost	0 to 15%	6%	0	Torque boost	0 to 30%	6/4/3/2%	Δ	When this parameter has been used at the initial setting in the FR-U100 inverters, use it at the initial setting in the FR-D700 inverters as well. When the setting has been changed from the initial value in the FR-U100 inverters, set the value obtained by multiplying the ratio of the set value to the initial value by the initial value in the FR-D700 inverters.	
ĺ	0	0	0	0	0	1	Upper limit frequency	0 to 120Hz	120Hz	1	Maximum frequency	0 to 120Hz	120Hz	0		
	0	0	0	0	0	2	Lower limit frequency	0 to 60Hz	0Hz	2	Minimum frequency	0 to 120Hz	0Hz	0		
	0	0	0	0	0	3	Base frequency	50 to 120Hz	60Hz	3	Base frequency	0 to 400Hz	60Hz	0		
<u> </u>			0	0	0	4	3-speed setting (high)	0 to 120Hz	60Hz	4	Multi-speed setting (high speed)	0 to 400Hz	60Hz	0		
1/1			0	0	0	5	3-speed setting (medium)	0 to 120Hz	30Hz	5	Multi-speed setting (middle speed)	0 to 400Hz	30Hz	0		
2			0	0	0	6	3-speed setting (low)	0 to 120Hz	10Hz	6	Multi-speed setting (low speed)	0 to 400Hz	10Hz	0		
	0	0	0	0	0	7	Acceleration time	0, 0.1 to 999s	5s	7	Acceleration time	0 to 3600s	5/10/15s	0		
ĺ	0	0	0	0	0	8	Deceleration time	0, 0.1 to 999s	5s	8	Deceleration time	0 to 3600s	5/10/15s	0		
	0	0	0	0	0	9	Electronic thermal relay	0 to 15A	Rated output current	9	Electronic thermal O/L relay	0 to 500A	Rated current	0		
										10	DC injection brake operation frequency	0 to 120Hz	3Hz	_	Set the parameter as required.	
	0		0		0		PWMmode	0 to 15,	3, —	72 240	PWM frequency selection	0 to 15	0 to 15 1 0,1 1 △ Use Pr.72 to set ti Pr 10 = "3" > Pr.7	0 to 15 1		
						10					Soft-PWM operation selection	0, 1		Use Pr.72 to set this function. Pr.10 = "3" -> Pr.72 = "3"		
										260	PWM frequency automatic switchover	0, 1	0			
	0	0	0	0	0	11	DC dynamic braking operation time	0 to 10s	0.5s	11	DC injection brake operation time	0 to 10s	0.5s	0	Use Pr.10 to set the DC injection brake operation frequency. When Pr.12 has been used at the initial setting, use it at the initial setting for the	
	0	0	0	0	0	12	DC dynamic braking voltage	0 to 15%	8%	12	DC injection brake operation voltage	0 to 30%	4%	$\bigtriangleup$	FR-U700 as well. When the setting has been changed from the initial value in the FR-U100 inverters, set the value obtained by multiplying the ratio of the set value to the initial value by the initial value in the FR-D700 inverters.	
BC			0	0		14	Applied motor selection	0, 10	0	71	Applied motor	0, 1, 3, 13, 23, 40, 43, 50, 53	0	Δ	Use Pr.71. Pr.14 = "0" -> Pr.71 = "0", Pr.14 = "10" -> Pr.71 = "1"	
Ϋ́			0	0	0	15	JOG frequency	0 to 120Hz	5Hz	15	Jog frequency	0 to 400Hz	5Hz	0		
C210			0	0	0	16	JOG acceleration/deceleration time	0, 0.1 to 999s	0.5s	16	Jog acceleration/deceleration time	0 to 3600s	0.5s	0		
)2-209																

		Inverter t	уре		FR-U100 parameter list					FR-D700 parameter list				Description about parameter setting	
Standard	Standard Low noise	Multifunction	Multifunction Low noise	Multifunction PU-operated	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks	
		0	0	0					180	RL terminal function selection	0 to 5, 7, 8, 10,	0			
					17	External thermal relay input selection	0, 1	0	181	RM terminal function selection	12, 14, 16, 18, 24, 25, 37, 62,	1	$\bigtriangleup$	Use Pr.180 to Pr.182. Pr.17 = "0" -> JOG. Pr.17 = "1" -> OH	
									182	RH terminal function selection	65 to 67, 9999	2			
		0	0	0	19	Base frequency voltage	0 to 500V, —	—	19	Base frequency voltage	0 to 1000V, 8888, 9999	9999	$\bigtriangleup$	> 9999	
0	0	0	0	0	20	Acceleration/deceleration reference frequency	1 to 120Hz	60Hz	20	Acceleration/deceleration reference frequency	1 to 400Hz	60Hz	0		
0	0	0	0	0	21	Frequency setting voltage bias	0 to 60Hz	0Hz	C2 (902)	Terminal 2 frequency setting bias frequency	0 to 400Hz	0Hz	$\bigtriangleup$	Refer to Pr.C2. Also refer to Pr.73 and Pr.74.	
0	0	0	0	0	22	Frequency setting voltage gain	0 to 120Hz	60Hz	125 (903)	Terminal 2 frequency setting gain frequency	0 to 400Hz	60Hz	$\bigtriangleup$	Refer to Pr.125. Also refer to Pr.73 and Pr.74.	
0	0	0	0	0	23	Stall prevention operation level	0 to 10	5	22	Stall prevention operation level	0 to 200%	150	$\bigtriangleup$	Use Pr.22. Pr.23 = "5" -> Pr.22 = "150"	
		0	0	0	24	Multi-speed setting (4th speed)	0 to 120Hz,		24	Multi-speed setting (speed 4)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
		0	0	0	25	Multi-speed setting (5th speed)	0 to 120Hz,	_	25	Multi-speed setting (speed 5)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
		0	0	0	26	Multi-speed setting (6th speed)	0 to 120Hz,		26	Multi-speed setting (speed 6)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
į		0	0	0	27	Multi-speed setting (7th speed)	0 to 120Hz,		27	Multi-speed setting (speed 7)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
		0	0	0	37	Speed display	0, 0.1 to 999	0	37	Speed display	0, 0.01 to 9998	0	O		
		0	0	0	42	Up-to-frequency sensitivity	0 to 100%	10%	41	Up-to-frequency sensitivity	0 to 100%	10%	O	Refer to Pr.41.	
		0	0	0	43	Output frequency detection	1 to 120Hz	6Hz	42	Output frequency detection	0 to 400Hz	6Hz	0	Refer to Pr.42.	
		0	0	0	44	Output frequency detection for reverse rotation	0 to 120Hz,	_	43	Output frequency detection for reverse rotation	0 to 400Hz, 9999	9999	$\bigtriangleup$	Refer to Pr.43. > 9999	

		Inverter ty	/pe		FR-U100 parameter list					FR-D700 parameter list				Description about parameter setting		
Standard	Standard Low noise	Multifunction	Multifunction Low noise	Multifunction PU-operated	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks		
		0	0	0	46	No.2 acceleration/deceleration time	0, 0.1 to 999s, —		44	Second acceleration/deceleration time	0 to 3600s	5/10/15s	$\bigtriangleup$	Refer to Pr.44.		
		0	0	0	47	No.2 deceleration time	0, 0.1 to 999s, —		45	Second deceleration time	0 to 3600s, 9999	9999	$\bigtriangleup$	Refer to Pr.45. > 9999		
		0	0	0	48	No.2 torque boost	0 to 15%, —		46	Second torque boost	0 to 30%, 9999	9999	$\bigtriangleup$	Refer to Pr.46.		
		0	0	0	49	No.2 V/F (Base frequency)	50 to 120Hz,		47	Second V/F (base frequency)	0 to 400Hz, 9999	9999	$\bigtriangleup$	Refer to Pr.47.		
		0	0	0	50	Retry selection	0, 1, 2, 3	0	65	Retry selection	0 to 5	0	$\bigtriangleup$	Refer to Pr.65.		
		0	0	0	51	No. of retries at alarm	0, 1 to 10, 101 to 110	0	67	Number of retries at fault occurrence	0 to 10, 101 to 110	0	O	Refer to Pr.67.		
		0	0	0	52	Retry execution wait time	0 to 360s	1s	68	Retry waiting time	0.1 to 600s	1s	0	Refer to Pr.68.		
		0	0	0	53	No. of retry execution time display clear	0	0	69	Retry count display erase	0	0	O	Refer to Pr.69.		
		0	0	0	55	Frequency monitor reference	0 to 120Hz	60Hz	55	Frequency monitoring reference	0 to 400Hz	60Hz	O			
		0	0	0	56	Current monitor reference	0 to 200%	150%	56	Current monitoring reference	0 to 500A	Inverter rated current	$\bigtriangleup$	The function is different.		

#### Inverter type

Inverter type					FR-U100 parameter list					FR-D700 parameter list				Description about parameter setting		
Standard	Standard Low noise	Multifunction	Multifunction Low noise	Multifunction PU-operated	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks		
		0	0	0	59	Remote setting function selection	0, 1	0	59	Remote function selection	0, 1, 2, 3	0	$\bigtriangleup$	Use Pr.59. "0" -> "1". "1" -> "2" or "3"		
		0	0	0					180	RL terminal function selection		0				
					60	Input terminal function	0 to 8	0	181	RM terminal function selection	0 to 5, 7, 8,	1		Refer to Pr 180 to Pr 182 and Pr 59		
						Sciection					10, 12, 14,		$\triangle$	Pr.60 = "0" -> RH, RM, RL (7-speed)		
		0	0		61	Input terminal allocation	111 to 999,	_	182	RH terminal function selection	25, 37, 62, 65	2				
		0	0		62	STR terminal function	0 to 10,	_	179	STR terminal function selection	to 67, 9999	61	Δ	Use Pr.179.		
		0	0	0							1 to 3, 5, 8 to			Use Pr. 178 Ionterminal STF.		
					70	FM output terminal function selection	0, 1	0	54	FM terminal function selection	12, 14, 21, 24, 52, 53,	1	$\bigtriangleup$	Use Pr.54. Pr.70 = "0" -> Output frequency Pr.70 = "1" -> Output frequency		
	0		0		74	Tana aslastian	0.4	0	040		61, 62	4	^			
	0		0		71	Ione selection	0, 1	0	240	Soft-PVVIVI operation selection	0, 1 0 to 15	1		Refer to Pr.240.		
	Ũ		Ŭ		72	PWM carrier frequency	2.3 to	7kHz	12		01015	1	$\bigtriangleup$	The function is different. Adjust the parameter for the FR-D700.		
							IH.JKI IZ		260	PVVIVI frequency automatic switchover	0, 1	0				
									73	Analog input selection	0, 1, 10, 11	1	_	Set the parameter as required.		
									74	Input filter time constant	0 to 8	1	—	Set the parameter as required.		
0	0	0	0	0	75	STOP key function	0, 14	14	75	Reset selection/disconnected PU detection/PU stop selection	0 to 3, 14 to 17	14	$\bigtriangleup$			
		0	0	0	76	Output signal selection	0, 1, 2	0	190	RUN terminal function selection	0, 1, 3, 4, 7, 8, 11 to 16, 25, 26, 46, 47, 64, 70, 80, 81, 90, 91, 93, 95, 96, 98, 99, 100, 101, 103, 104, 107, 108, 111 to 116, 125, 126, 146, 147, 164, 170, 180, 181, 190, 191, 193, 195, 196, 198, 199, 9999	0	Δ	Use Pr.190. Pr.76 = "0" -> RUN, Pr.76 = "1" -> SU, Pr.76 = "2" -> FU		

	Inverter type			FR-U100 parameter list				FR-D700 parameter list				Description about parameter setting				
	Standard	Standard Low noise	Multifunction	Multifunction Low noise	Multifunction PU-operated	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks	
	0	0	0	0	0	77	Write prohibit selection	0,1	0	77	Parameter write selection	0, 1, 2	0	$\bigtriangleup$		
	0	0	0	0	0	78	Reverse rotation prevention selection	0, 1, 2	0	78	Reverse rotation prevention selection	0, 1, 2	0	O		
	0	0	0	0	0	79	Operation mode selection	1, 2, 3, 4	1	79	Operation mode selection	0, 1, 2, 3, 4, 6, 7	0	$\bigtriangleup$		
			0	0		80	Multi speed 8	0 to 120Hz,	-	232	Multi-speed setting (speed 8)	0 to 400Hz, 9999	9999	$\bigtriangleup$	Refer to Pr.232.         Refer to Pr.233.         Refer to Pr.234.         Refer to Pr.235.         Refer to Pr.236.         Refer to Pr.237.         Refer to Pr.238.         Refer to Pr.239.	
			0	0		81	Multi speed 9	0 to 120Hz,		233	Multi-speed setting (speed 9)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
			0	0		82	Multi speed 10	0 to 120Hz,	_	234	Multi-speed setting (speed 10)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
			0	0		83	Multi speed 11	0 to 120Hz,	-	235	Multi-speed setting (speed 11)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
			0	0		84	Multi speed 12	0 to 120Hz,		236	Multi-speed setting (speed 12)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
(			0	0		85	Multi speed 13	0 to 120Hz,	-	237	Multi-speed setting (speed 13)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
15/1			0	0		86	Multi speed 14	0 to 120Hz,	_	238	Multi-speed setting (speed 14)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
17)			0	0		87	Multi speed 15	0 to 120Hz,	_	239	Multi-speed setting (speed 15)	0 to 400Hz, 9999	9999	$\bigtriangleup$		
			0	0		91	Frequency jump 1A	0 to 120Hz,	-	31	Frequency jump 1A			$\bigtriangleup$	Refer to Pr.31. Refer to Pr.32. Refer to Pr.33. Refer to Pr.34. Refer to Pr.35. Refer to Pr.36.	
			0	0		92	Frequency jump 1B	0 to 120Hz, 	_	32	Frequency jump 1B			Δ		
			0	0		93	Frequency jump 2A	0 to 120Hz, 	_	33	Frequency jump 2A	0 to 400Hz,	0000	Δ		
			0	0		94	Frequency jump 2B	0 to 120Hz, 	_	34	Frequency jump 2B	9999	9999			
			0	0		95	Frequency jump 3A	0 to 120Hz, 	_	35	Frequency jump 3A		$\bigtriangleup$			
			0	0		96	Frequency jump 3B	0 to 120Hz, 	_	36	Frequency jump 3B			$\bigtriangleup$		
m										160	Extended function display selection	0, 9999	9999	_	To display extended parameters, set Pr.160 = "0". Set the parameter as required.	
3CN-C2100;										178	STF terminal function selection	0 to 5, 7, 8, 10, 12, 14, 16, 18, 24, 25, 37, 60, 62, 65 to 67, 9999	60	_	Set the parameter as required.	

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	Inverter type					FR-U100 parameter list				FR-D700 parameter list				Description about parameter setting	
	Standard	Standard Low noise	Multifunction	Multifunction Low noise	Multifunction PU-operated	Pr.	Name	Setting range	Initial value	Pr.	Name	Setting range	Initial value	Setting	Remarks
F			0	0	0	C-1 900	Frequency meter scale calibration	_	-	C0 (900)	FM terminal calibration	_	Ι	$\bigtriangleup$	The calibration method differs between inverters in both series. Refer to Pr.C0.
	0	0	0	0		C-2	Frequency setting bias	0 to 60Hz	0Hz	C2 (902)	Terminal 2 frequency setting bias frequency	0 to 400Hz	0Hz		The calibration method differs between inverters in both series. Refer to Pr.C2 and Pr.C3. Also refer to Pr.73 and Pr.74.
					0	902	Calibration			C3 (902)	Terminal 2 frequency setting bias	0 to 300%	0%		(When current input (4 to 20 mA) is selected, use terminal 4 tor input and set Pr.126, Pr.C5 (904) to Pr.C7 (905).) Set the parameter as required.
	0	0	0	0		C-3	Frequency setting gain calibration	0 to 120Hz 60	60Hz	125 (903)	Terminal 2 frequency setting gain frequency	0 to 400Hz	60Hz		The calibration method differs between inverters in both series. Refer to Pr.125 and Pr.C4. Also refer to Pr.73 and Pr.74. (When current input (4 to 20 mA) is selected, use terminal 4 for input and set $Pr.136$ , $Pr.C5$ (004) to $PC.7$ (005).) Set the parameter as
					0	903				C4 (903)	Terminal 2 frequency setting gain	0 to 300%	100%	$\bigtriangleup$	required.
					0	990	PU key sound selection	0, 1	0	990	PU buzzer control	0, 1	1	$\bigtriangleup$	
16/17)					0	991	PU display data selection	0, 1, 2	0	52	DU/PU main display data selection	0, 5, 8 to 12, 14, 20, 23 to 25, 52 to 55, 61, 62, 64, 100	0	Δ	Use Pr.52 for adjustment in the FR-D700.
ſ					0	996	Alarm clear	_	_	Er.CL	Fault history clear	0, 1	0	$\bigtriangleup$	Use the operation panel.
					0	997	Inverter reset	_	_						Consider the use of the STOP/RESET key on the operation panel.
					0	998	All parameter clear	_	-	ALLC	All parameter clear	0, 1	0	$\bigtriangleup$	Use the operation panel to clear parameters. The frequency setting signal is calibrated differently.
	0	0	0	0		CLr	Parameter clear	0, 1, 2	0		000				
					0	999	Parameter clear	—	—	Pr.CL	Parameter dear	0, 1	0	$\bigtriangleup$	Use the operation panel.

## 4. Option

The following table shows the comparison of options between the FR-U100 series inverters and the FR-D700 series inverters.

	Nama	Option						
	Name	FR-U100	FR-D700					
	Power factor	FR-BAL	FR-HAL					
	improving AC reactor							
	Noise reduction output	FR-BOL	Compatible					
	reactor							
ð	EMC Directive	SF	SF, FR-S5NFSA					
type 1	compliant noise filter		(single-phase 200V)					
-alone	DIN rail installation attachment	FR-UDA	FR-UDA*					
and	Radio noise filter	FR-BIF	Compatible					
び	Line noise filter	FR-BSF01	Compatible					
	Parameter unit	FR-PU03	FR-PU07					
	Digital operation panel	FR-DU01	FR-PA07					
	Parameter unit	FR-CBL	FR-CB20					
	connection cable							
	Three speed selector	FR-AT	Compatible					
er / er	Motorized speed setter	FR-FK	Compatible					
troll	Ratio setter	FR-FH	Compatible					
Lo Lo Lo Lo	Speed detector	FR-FP	Compatible					
ed (	Master controller	FR-FG	Compatible					
/anu Spe	Soft starter	FR-FC	Compatible					
2 "	Deviation detector	FR-FD	Compatible					
	Preamplifier	FR-FA	Compatible					

\* When installation sizes are different between two series for some capacity models, change the attachment.