

## APPENDIX A. PARAMETER LIST

Display symbol	Name	Setting range	Increment	Unit	Default value	Changeable during operation
P	Temperature control signal	0.0 to 100.0	0.1	%	0.0	✓
H	Manual (upper limit) signal	0.0 to 100.0	0.1	%	0.0	✓
L	Lower point (lower limit) signal	0.0 to 100.0	0.1	%	0.0	✓
F	Gradient (proportional) signal	0.0 to 100.0	0.1	%	100.0	✓
E	Soft-start time	0.0 to 300.0	0.1	s	0.5	✓
C	Current limit amount	10 to 110	1	%	110	✓
U	Heater disconnection amount	5 to 50	1	%	50	✓
d	Delay time	0.0 to 3.0	0.1	s	0.0	✓
t	Interval	1.0 to 3.0	0.1	s	1.0	✓
n	Function characteristics	0 to 7	1	No.	0	x

Code	Function name	Setting range	Increment	Unit	Default value	Changeable during operation
F000	Rated current setting	1 to 9999	1	A	*	✓
F001	Rated voltage setting	0.1 to 999.9	0.1	V	*	✓
F100	Waveform control method	0: Phase control 1: Intermittent cycle control 2: Continuous cycle control	-	-	0	✓
F101	Temperature controller type	0: 4 to 20 mA (1 to 5 VDC) 1: 0 to 5 VDC 2: Two-position control	-	-	0	✗
F2_P	Priority of the temperature controller signal (P)	0: Control terminal block input  1: Panel  2: Communication	-	-	0	✗
F2_H	Priority of the upper limit signal (H)				0	✗
F2_L	Priority of the lower point signal (L)				0	✗
F2_F	Priority of the gradient signal (F)				0	✗
F2_E	Priority of the soft-start time (E)	1: Panel  2: Communication	-	-	1	✗
F2_C	Priority of the current limit amount (C)				1	✗
F2_U	Priority of the heater disconnection amount (U)				1	✗
F2_d	Priority of the delay time (d)				1	✗
F2_t	Priority of the interval (t)				1	✗
F2_n	Priority of the function characteristics (n)				1	✗

↑

(During operation refers to the state in which the operation status LED on the display panel is ON or flashes, it does not indicate that output is generated.)

Code	Function name	Setting range	Increment	Unit	Default value	Changeable during operation
F300	Selection of target to change	1 to 7	1	No.	1	✕

Default values of function characteristics

	Characteristic 1	Characteristic 2	Characteristic 3	Characteristic 4	Characteristic 5	Characteristic 6	Characteristic 7
0.0% of setting	0	0	0	0	0	0	0
10.0% of setting	24	28	32	35	40	46	9
20.0% of setting	37	41	45	48	53	58	22
30.0% of setting	47	51	55	58	62	67	37
40.0% of setting	56	60	63	66	69	74	52
50.0% of setting	65	68	71	73	76	79	67
60.0% of setting	73	75	77	79	82	84	80
70.0% of setting	80	82	84	85	87	89	89
80.0% of setting	87	88	89	90	91	93	95
90.0% of setting	94	94	95	95	96	97	98
100.0% of setting	100	100	100	100	100	100	100

Code	Function name	Setting range	Increment	Unit	Default value	Changeable during operation
F400	Feedback control method	0: No feedback 1: Constant current 2: Constant voltage 3: Constant power	-	-	0	✗
F401	Heater disconnection detection function	0: Disable standard version 1: Disable highly functional version 2: Enable standard version 3: Enable highly functional version	-	-	0	✗
F402	Heater A count	1 to 5	1	-	2	✗
F403	Heater B count	1 to 5	1	-	1	✗
F404	Current gain adjustment	1 to 9999	1	A	0	✓
F405	Voltage gain adjustment	1 to 999.9	0.1	V	0	✓
F406	Power gain adjustment	1 to 999.9	0.1	kW	0	✓
F407	CT selection	0: External CT, 1: Built-in CT	-	-	0	✗
F408	Conversion board model check	(No setting)	-	-	-	-

↑

(During operation refers to the state in which the operation status LED on the display panel is ON or flashes, it does not indicate that output is generated.)

Code	Function name	Setting range	Increment	Unit	Default value	Changeable during operation
F501	Node address	0 to 255	1	-	1	✗
F502	Transmission rate	[9.6], [19.2], [38.4]	-	kbps	[9.6]	✗
F503	Transmission mode	[8n1], [8o1], [8E1], [8n2], [8o2], [8E2]	-	-	[8E1]	✗
F507	Transmission latency	0 to 999	1	ms	0	✗

Code	Function name	Setting range	Increment	Unit	Default value	Changeable during operation
F601	Er.01: Overcurrent detection	0: No output 1: Output to 1A-1C 2: Output to HA-HC 3: Output to both	-	-	1	×
F602	Er.02: Temperature rise error		-	-	1	×
F603	Er.03: Fuse blowout		-	-	1	×
F604	Er.04: Self-diagnosis Load short circuit error		-	-	1	×
F605	Er.05: Self-diagnosis Thyristor open		-	-	1	×
F606	Er.06: Self-diagnosis Thyristor short circuit		-	-	1	×
F607	Er.07: CPU error		-	-	0	×
F608	Er.08: Memory error		-	-	0	×
F609	Er.09: Emergency stop		-	-	0	×
F610	Er.10: Power supply voltage drop		-	-	2	×
F611	Er.11: Instantaneous voltage drop		-	-	2	×
F612	Er.12: Frequency error		-	-	2	×
F613	Er.13: Heater disconnection		-	-	2	×
F614	Er.14: Self-diagnosis Load open error		-	-	2	×
F700	Self-diagnosis stop	0: Suspend self-diagnosis 1: Enable self-diagnosis	-	-	1	×
F701	RUN/STOP key lock	0: Unlock 1: Lock	-	-	0	×
F702	SAVE key lock	0: Unlock 1: Lock	-	-	0	×

↑

(During operation refers to the state in which the operation status LED on the display panel is ON or flashes, it does not indicate that output is generated.)