

QCW VDD 87-110-40 eDrive Menus Table

Menu 1	Menu 2	Menu 3	Parameter	Setting or Value	
Channel Setup			Internal Trigger	<u>Enabled</u> or Disabled	
			External Trigger	Enabled or <u>Disabled</u>	
			External Gate	Enabled or <u>Disabled</u>	
			Marking Mode	Enabled or <u>Disabled</u>	
Channel Setup	Q-Switch		Q Switch (QS)	Enabled or Disabled	
			Q Switch Offset	0ns, Rotate Dial	
			Zero Q Switch Offset	0ns, Rotate Dial	
			Set Window Width	5 $\mu$ s, Rotate Dial	
			-More-	Set Q-Switch Power	100%
Channel Setup	Channel 1		Channel 1	<u>Enabled</u> or Disabled	
			Enable CW Mode	(Must Disable Ch 1)	
				CONFIRM YES/NO	
			Set Current	0.0A, Rotate Dial	
			Set Standby Current	10.0 A Rotate Dial	
			-More-	Set Frequency	4 kHz, Rotate Dial
				Set Pulse Width	220us, Rotate Dial
				Set Duty Cycle Limit	15%, Rotate Dial
			-More-	Set Current Limit	200.0A, Rotate Dial
				Set Pulse Delay	0us
			-More-	Slew Rate Limit	Enable or Disable
				Set PW Offset	25.0us, Rotate Dial
				Set Voltage Dropout	0.0V, Rotate Dial
				Current Tolerance	Enable or Disable
				Current Tolerance	10.0A, Rotate Dial
Channel Setup	Comm 1	(set to OVEN TEC to enable Com 1: Comm Setup / RS-232 Ch 1 Setup / Set Function / OVEN TEC)	TEC (Note, Enable must be done last)	Enabled or <u>Disabled</u>	
				Set Temp.	+25.0C, Rotate Dial
				Tolerance Range	+3.5C, Rotate Dial
			-More-	Output Voltage	Cool, Heat, H-Bridge,
				Min. Temp.	+149.0C, Rotate Dial
				Max. Temp.	+149.0C, Rotate Dial
			-More-	P Const.	+20.0C, Rotate Dial
				I Const.	1 rep/min, Rotate Dial
				D Const.	0 cy/min, Rotate Dial
			-More-	Control Function	1.00, Rotate Dial
				Heat Mult.	1.5C, Rotate Dial
			-More-	Sensor Type	TS67, TS91, TS104, TS141, Rotate Dial
				Sensor Offset	0.00C
	TEC (Note, Enable must be done last)	<u>Enabled</u> or Disabled			

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
Comm Setup	RS-232 Ch 0 Setup		Set Baud Rate	9600 or 1200, 2400, 4800, 19200, 38400
			Set Bit Frame	8N1, or 801, 8E1, 8N2
			Set Function	None or OVEN TEC, SCPI PS, Loopback, Modbus
			Set Address	1 to 247
Comm Setup	RS-232 Ch 1 Setup		Set Baud Rate	9600 or 1200, 2400, 4800, 19200, 38400
			Set Bit Frame	8N1, or 801, 8E1, 8N2
			Set Function	None or OVEN TEC, SCPI PS, Loopback, Modbus
			Set Address	1 to 247
Comm Setup	RS-485 Setup		Set Baud Rate	9600 or 1200, 2400, 4800, 19200, 38400
			Set Bit Frame	8N1, or 801, 8E1, 8N2
			Set Function	None or Modbus, Loopback
			Set Address	1 to 247
Comm Setup	Ethernet Setup		DHCP	Enabled or Disabled
Comm Setup	Ethernet Setup	Set Static IP	Set IP Address	192.168.0.10
			Set Mask	255.255.255.0
			Set Gateway	192.168.0.254
Comm Setup	Ethernet Setup		Set Function	None or TCP/IP Modbus
			Set Address	1 to 247

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
Interface Setup	Set Trig Out Mode		QSW Active	Low or High
			TE Active	Low or High
Interface Setup	Shutter Setup		Shutter FPS	<u>Enabled</u> or Disabled
			Set Shutter Speed	10 ms
			Closed to Standby	Enabled or <u>Disabled</u>
Interface Setup (2U ONLY)	Q Switch Setup		Trigger Active	Low or High
			FPS Window Active	Low or High
			On/Off Active	Low or High
		-More-	Reset Active	Low or High
			Fault Active	Low or High or Never
		-More-	Trigger Active	Low or High
			FPS Active	Low or High
			On/Off Active	Low or High
Interface Setup	Marking Mode Setup		LM Active	<u>Low</u> or High
			Gate Active	Low or <u>High</u>
			FPS Active	Low or <u>High</u>

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
Utility Functions	System Options		Key Click	Enabled or <u>Disabled</u>
			Adjust Contrast	Dial
			Audible Warning	Enabled or <u>Disabled</u>
(N/A 2U)	System Options	-More-	Restore Orig. Build Configuration	Yes / No
Utility Functions		-More-	Restore Factory Defaults	Yes / No
Utility Functions	System Status	Sys Ctrl	Firmware Version	2.10.1
		-More-	Warranty Timer	3 Hr 47 Min
		-More-	Electronic ID: MAC ID	D1000014A729F201 00603511DAC9
		-More-	Processor ID FPGA Version	575E700FF19BD489 16
		-More-	IP Address Gateway	192.168.0.10/24 192.168.0.254
		-More-	Front Panel Firmware ver. Front Panel ID	11 000014DAEC5601
(N/A 2U)	System Status	Expansion	Firmware Version	1.6.0
Utility Functions		-More-	Warranty Timer	4 Hr. 5 Min
Utility Functions	System Status	Channel 1	Expansion Module ID:	0000000000000000
		-More-	OW Count and Fault	0 and 0
		-More-	Firmware Version	2.2.0
		-More-	Warranty Timer	4 Hr 10 Min
			Current and Temp PS voltage	23.0A and 26C 28.0V
			CW Run Time CW Power Cycles	0 Hr and 0 Min 0
			Pulsed Shot Count: Electronic ID	0K 220000001CE30AE4
Comm 0			TEC Status	
			Temperature	+34.58 C
			Voltage	10.03 V
			Power Output	-100.00 %
Utility Functions			Manual Lockout	Enabled or <u>Disabled</u>
(N/A 2U)	Humidity Options		Measured Current Humidity	Reads measured humidity (38%)
Utility Functions			Adjust Humidity Threshold	30%

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Menu 1	Menu 2	Menu 3	Parameter	Setting or Value
<b>MENU</b> (hold down for quick menu)				
<b>Ch 1</b>		<b>-More-</b>	I Sense	0.0A
			I Set	100.0A
			Freq	100 Hz
			PW	100uS
			Ch 1 V sense	0.0V
			Pulses	940K
			Ch1 Temp	< 75°C (~50°C typ.)
(For Internal TEC)		<b>-More-</b>	TEC T Sense	+34.59 C
			T Set	See test report (+25.0 C typ)
			Power Out	-100.0 %
<b>MENU</b> (hold down to return to main menu)		<b>-More-</b>	Q Switch Offset	0 ns
			Q Switch PW	60 us