

Output	CP2000 TEZ	CP2725 TEZ
Voltage Default	54 Vdc	54 Vdc
Voltage Adjust Range - Hardware set via margin pin - I <sup>2</sup> C or RS485 set	44 – 58 Vdc 42 – 58 Vdc	44 – 58 Vdc 42 – 58 Vdc
Output Current - Low-Line - High-Line	25 Adc, 54V 37 Adc, 54V 38.4 Adc, 52V	25 Adc, 54V 50.5 Adc, 54V 53.4 Adc, 52V
Output Power - Low-Line - High-Line	1200 Watts 2000 Watts	1200 Watts 2725 Watts
Psophometric Noise	4 mVrms max	4 mVrms max
Ripple (5Hz to 20MHz) - RMS - Peak-to-Peak	150 mVrms 250 mVpk-pk	150 mVrms 250 mVpk-pk
Overvoltage Protection - Delayed - Immediate	60 Vdc (200 ms delayed shutdown) 65 Vdc (Instantaneous shutdown above this point.)	60 Vdc (200 ms delayed shutdown) 65 Vdc (Instantaneous shutdown above this point.)
Over Temperature - Warning - Shutdown - Auto-recoverable	5°C 20°C Temperature hysteresis of approximately 10°C provided between shutdown and restart.	5°C 20°C Temperature hysteresis of approximately 10°C provided between shutdown and restart.
Overload Current Limit - Low Line	26 Adc Hi-Cap	26 Adc Hi-Cap
Overload Current Limit - High Line	39 Adc Hi-Cap	53 Adc Hi-Cap
Overload Current Limit > 41.5V <sub>o</sub> - High Line	39.2 - 42.9 Adc Fold_down current limit (FL = 38.5A @ 52V) Hiccup mode with a 10% duty cycle enabled below 39Vdc. Latched mode current limit optional. Above 275V input the voltage level at which current limit changes states is 45V. There is a 30 second delay prior to shifting to the lower limit.	53-58 Adc Fold_down current limit (FL = 52.4A @ 52V) Hiccup mode with a 10% duty cycle enabled below 39Vdc. Latched mode current limit optional. Above 275V input the voltage level at which current limit changes states is 45V. There is a 30 second delay prior to shifting to the lower limit.
Overload System Power Up	Units should be able to be plugged in one at a time and guarantee system start up. Units should stay in current limit for approximately 20 seconds to guarantee restart.	Units should be able to be plugged in one at a time and guarantee system start up. Units should stay in current limit for approximately 20 seconds to guarantee restart.
Overall Regulation	-2% to +2% includes all variations due to specified load range, drift, and environmental conditions.	-2% to +2% includes all variations due to specified load range, drift, and environmental conditions.
Current Share	-5%FL to +5%FL compared to the average output current delivered by a set of rectifiers. Loads > 50% FL	-5%FL to +5%FL compared to the average output current delivered by a set of rectifiers. Loads > 50% FL
Proportional Current Share	<7%FL among rectifiers of different output capacities	<7%FL among rectifiers of different output capacities
External Bulk Load Capacitance	5,000µF max External capacitance can be increased but the power supply will not meet its turn-ON rise time requirement	5,000µF max External capacitance can be increased but the power supply will not meet its turn-ON rise time requirement
Turn-ON Delay	5 seconds Monotonic Turn_ON from 30% to 100% of V <sub>nom</sub> above -5°C operation. Monotonic Turn_On from 60% to 100% of V <sub>nom</sub> below -5°C operation.	5 seconds Monotonic Turn_ON from 30% to 100% of V <sub>nom</sub> above -5°C operation. Monotonic Turn_On from 60% to 100% of V <sub>nom</sub> below -5°C operation.
Turn-ON Rise Time	100 ms standard (PMBus) 8 s telecom (RS-485)	100 ms standard (PMBus) 8 s telecom (RS-485)
Turn-ON Overshoot	2%	2%
Load Step Response	ΔI/Δt slew rate 1A/µs	ΔI/Δt slew rate 1A/µs
Load Step Response ΔI	50%FL Setting time to within regulation requirements	50%FL Setting time to within regulation requirements
Load Step Response ΔV	2.0Vdc Minimum load of 2.5A required	2.0Vdc Minimum load of 2.5A required
Load Step Response Time	2 ms	2 ms

Auxiliary Output	CP2000 TEZ	CP2725 TEZ
Output Voltage Setpoint	5 Vdc	5 Vdc
Output Current	0.005A min 0.75A max	0.005A min 0.75A max
Overall Regulation	-10% to +5% within $\pm 5\%$ when load is < 0.5A.	-10% to +5% within $\pm 5\%$ when load is < 0.5A.
Ripple and Noise	50 mVpk-pk typical 100 mVpk-pk max 20 Mhz bandwidth	50 mVpk-pk typical 100 mVpk-pk max 20 Mhz bandwidth
Over-voltage Clamp	7 Vdc	7 Vdc
Over-current Limit	110 %FL min 175 %FL max	110 %FL min 175 %FL max

General		
Cooling	Internal variable-speed fan cooled	
Efficiency	97.5%	
Heat Dissipation	42 W / 143 BTU @ 50% power 143 W / 487 BTU @ full power	30.9 W / 105 BTU @ 50% power 94.2 W / 321 BTU @ full power

Mechanical	
Length (in./mm)	13.85 / 351.8
Width (in./mm)	4 / 101.6
Height (in./mm)	1.63 / 41.4
Weight (lb / kg)	5 / 2.27

Environmental	
Operating Temperature	-40°C1 to +75°C (-40 to 167 °F) 2°C max ambient derating per 1,000 ft elevation above 5,000 ft. 2% per °C power derating above 55°C.
Storage Temperature	-40°C to +85°C (-40 to 185 °F)
Power De-Rating	> +55°C (derates @ 2% per ° C)
Relative Humidity	95% max, non-condensing
Altitude	4,000m max (13,000 ft)
Audible Noise	55dBA, typical Noise proportional to fan speed, load and ambient temperature.

1. Designed to start at an ambient as low as -40°C but may not meet operational limits until above -5°C.

2. Derating initiates @ 45°C for Vac greater than 285Vac