

75 WATT HE TRIPLE SERIES DC/DC CONVERTERS



Unless otherwise stated, these specifications apply for baseplate temperature TB=23±2°C, nominal input voltage, and rated typ load. (1)

Output Parameters (VO1)				
Model		24T5.12HE 24T5.15HE	48T5.12HE 48T5.15HE 48T5.17HE	Units
Output Voltage		5		V
Output Voltage Setpoint Accuracy @ Typ Load	MAX	±1		%
Turn On Overshoot Min-Max Load	TYP	0		%
Temperature Coefficient	TYP	0.003		% / °C
	MAX	0.01		
Noise and Ripple RMS (4)	TYP	100		mV P-P mV RMS
	TYP	50		
Load Current (5) (12)	MIN	1.5		A
	TYP	10		
	MAX	15		
Load Transient Overshoot (7)	TYP	4		%
Load Transient Recovery Time (6)	TYP	200		µs
Load Regulation (5) Min-Typ Load	TYP	1		%
	MAX	1.2		
Line Regulation Vin = Min-Max	TYP	0.01		%
	MAX	0.1		
Overvoltage Protection (OVP) Threshold OVP Type - Non-latching Open Loop Overvoltage Clamp	TYP	130		%
Output Current Limit Vout = 90% of Vout-nom	TYP	120		%
Output Short Circuit Current Vout = 0.25V	MAX	175		%

Output Parameters (VO2, VO3)							
Model		24T5.12HE	48T5.12HE	24T5.15HE	48T5.15HE	48T5.17HE	Units
Output Voltage		±12		±15		±17	V
Output Voltage Setpoint Accuracy @ Typ Load	MAX	±5.5					%
Turn On Overshoot Min-Max Load	TYP	0					%
Temperature Coefficient	TYP	0.02					% / °C
	MAX	0.05					
Noise and Ripple RMS (4)	TYP	150	150	200	200	200	mV P-P mV RMS
	TYP	100	100	150	150	150	
Load Current (5) (12)	MIN	0.2		0.2		0.2	A
	TYP	1.041		0.833		0.735	
	MAX	2.0		2.0		2.0	
Load Transient Overshoot (7)	TYP	4					%
Load Regulation (5) Min-Typ Load	TYP	3.5					%
	MAX	5					
Line Regulation Vin = Min-Max	TYP	0.5					%
	MAX	1					
Cross Regulation (9)	TYP	4					%
Absolute Regulation	TYP	8					%
Output Voltage Protection Open Loop Overvoltage Clamp	Yes (Volt-Seconds Clamp)						%

