3. OUTPUT SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION		MIN	NOM	MAX	UNIT
V1 Output Voltages	±0.5% set point accuracy RS+ closed on +V1, RS- closed on V1 RTN, at 20% load (option SL).		-	24 48	-	V
V1 Output Power Rating *	Convection cooling (Refer to the de-rating curves below) Peak (less than 10 s, after P_OK high)				600 800	W
V1 Output Current *		V1: 24 V_{DC} V1: 48 V_{DC}			25.0 12.5	A
V1 Voltage Adjustment Range	Manually by push up and down buttons		-	±5	-	%V1
V1 Line Regulation	V_{AC}: 85 – 264 V_{RMS}		-	-	±0.1	%V1
V1 Load-Line-Cross Regulation	V_{AC}: 85 – 264 V_{RMS}; I1: 0 – 100%		-	-	±2	%V1
V1 Ripple and Noise	Rated load, Peak-to-peak, 20 MHz BW. (100 nF ceramic, 10 µF tantalum at load)		-	-	1	%V1
Transient Response: V1, 5V_{SB} Voltage Deviation	25% load changes at 1 A/µs 24 V at 1000 µF load / I_{OUT} > 2.5 A 48 V at 560 µF load / I_{OUT} > 1.25 A 5 V_{SB} at 560 µF load / I_{OUT} > 0.1 A		-	-	±5	%V1 %V_{SB}
V1 Start-up Rise Time	85<V_{IN}<264, any load conditions.		10	-	100	ms
V1 Hold-up Time	At nominal V_{IN}, full load		16	-	-	ms
V1 Current Sharing Accuracy	Two units in parallel at I1 rated load. VS-Logic and I-Share signals connected together. RS^+, RS^- signals connected together and to the load		45.5	-	54.5	%I1
Start-up Delay	V1 in regulation after de-asserting PS_Inhibit V1 in regulation after AC is applied (worst case: 85 V_{AC}) 5V_{SB} in regulation after AC is applied (worst case: 85 V_{AC})		- - -	- - -	450 2050 1500	ms
Turn-on Overshoot			- -	- -	10 10	%V1 %V_{SB}
Minimum Load	V1, 5V_{SB}		0	-	-	A
Maximum Load Capacitance		V1: 24 V_{DC} V1: 48 V_{DC}	- -	- -	16000 8000	µF
5 V_{SB} Output Voltage	±3% set point accuracy, 20% load.		-	5	-	V
5 V_{SB} Output Current			-	-	1.5	A
5 V_{SB} Load-Line-Cross Regulation	V_{AC}: 85 – 264 V_{RMS}; I_{SB}: 0 – 100%		-	-	±5	%V_{SB}

* Rated currents and combined power are referred to 55 °C ambient and V_{AC} ≥ 180 V_{RMS}.

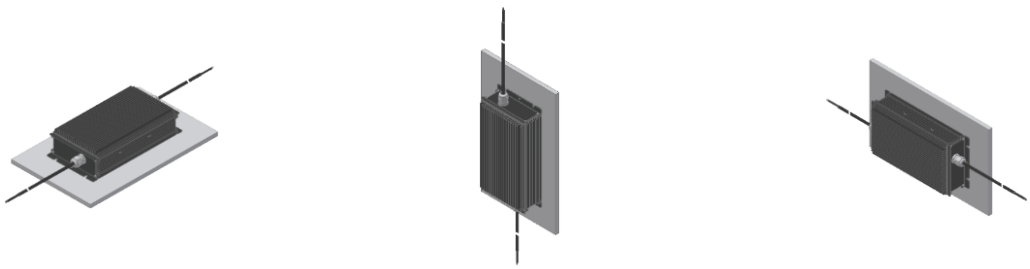

Figure 1. Mounting Orientation

3.1 OUTPUT POWER DE-RATING CURVES

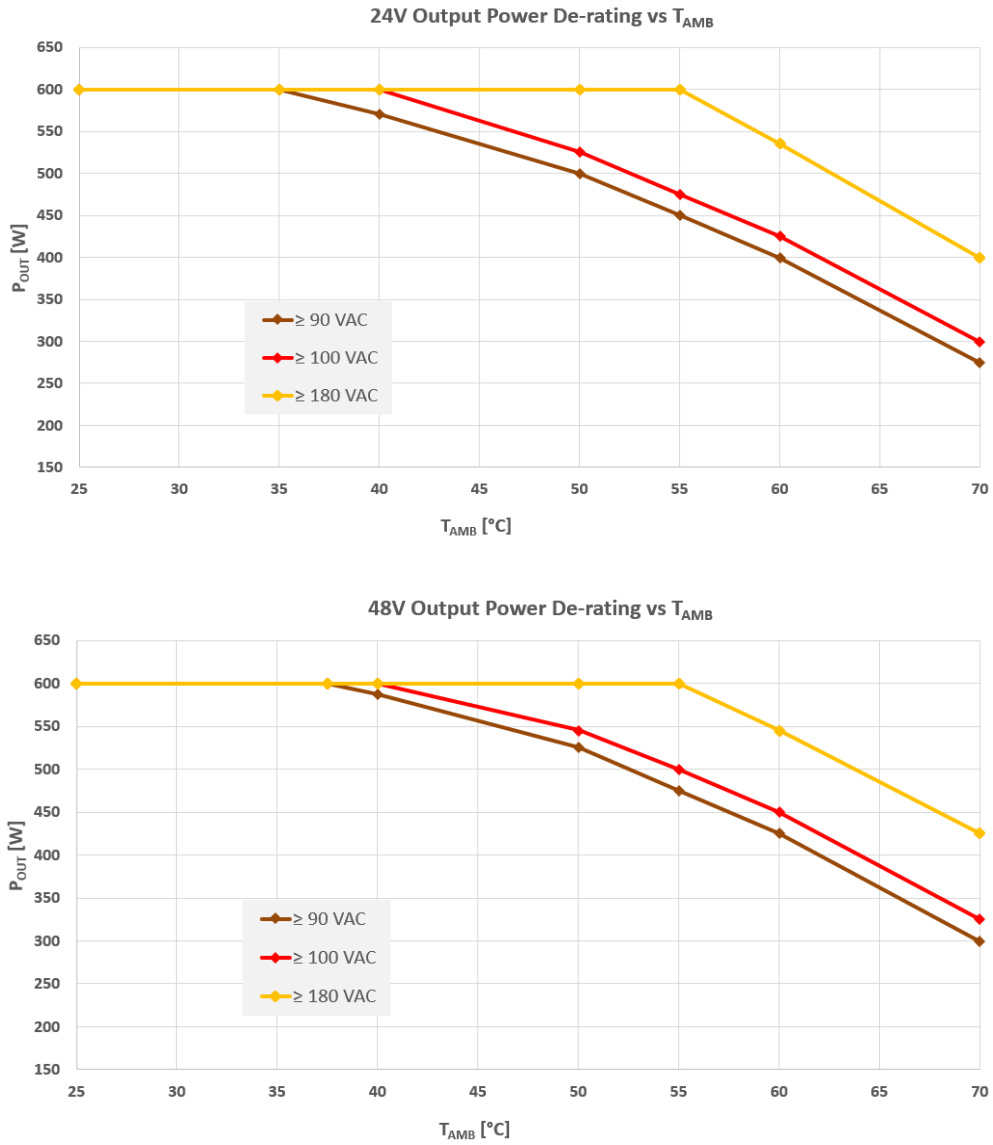

Figure 2. Power Derating Curves of MBS601 Series V1 P_{OUT} to T_{AMB}

Note: The de-rating curves are effective regardless mounting orientation