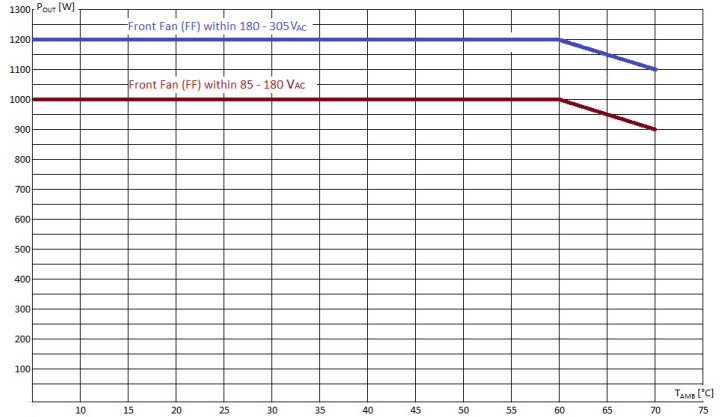
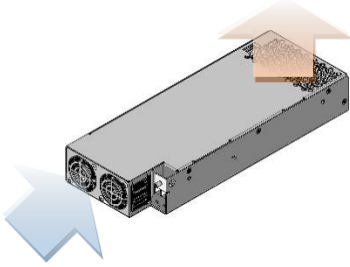


3. OUTPUT SPECIFICATIONS

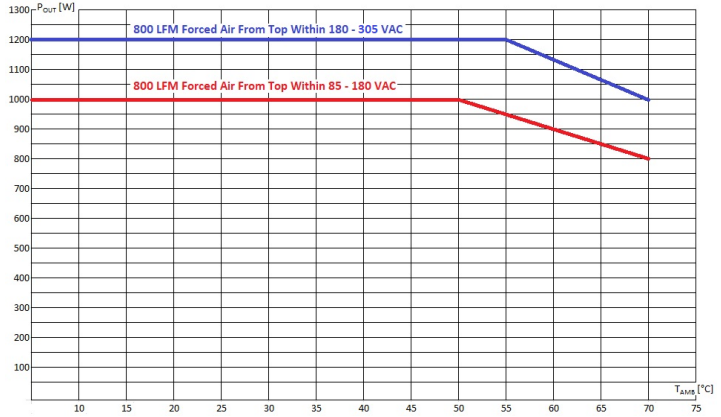
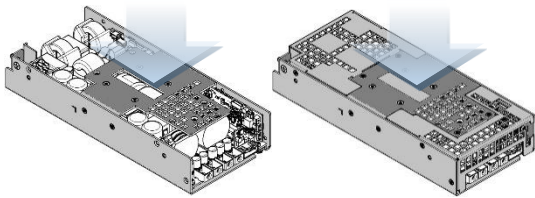
PARAMETER	DESCRIPTION / CONDITION	MIN	NOM	MAX	UNIT
V1 Output Voltages	±0.5% set point accuracy RS+ closed on +V1, RS- closed on V1 RTN, at 6% load.	-	24 48	-	V
V1 Output Power Rating	85 – 137 V _{AC} MBC1200-1T24-UCF / -PCF (800 LFM); (120-163 V _{DC}) MBE1200-1T24 / MBE1200-1T48 180 – 305 V _{AC} MBC1200-1T24-UCF / -PCF (800 LFM); (163-300 V _{DC}) MBE1200-1T24 / MBE1200-1T48			1000 1200	W
V1 Output Current	85 – 137 V _{AC} MBC1200-1T24-UCF / -PCF; MBE1200-1T24 (120-163 V _{DC}) MBE1200-1T48 180 – 305 V _{AC} MBC1200-1T24-UCF / -PCF; MBE1200-1T24 (163-300 V _{DC}) MBE1200-1T48			41.7 20.8 50 20	A
V1 Voltage Adjustment Range	Manually by push up and down buttons	-	±5	-	%V1
V1 Line Regulation	V _{AC} : 85 – 305 V _{RMS}	-	-	±0.1	%V1
V1 Load-Line-Cross Regulation	V _{AC} : 85 – 305 V _{RMS} ; I ₁ : 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, 12V _{SB} , 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 12 V _{SB} , 5 V _{SB} at 0-2200 µF load	-	-	±5	%V1 %V _{SB}
V1 Start-up Rise Time	85 < V _{IN} < 305, any load conditions. At nominal V _{IN} , full load SEMI F47-0706 compliant at ≥208 V _{AC}	10 10	- -	150 -	ms
V1 Hold-up Time					
	50% sag (104 V)	200	-	-	ms
	30% sag (145 V)	500	-	-	
	20% sag (166 V)	1000	-	-	
V1 Current Sharing Accuracy	Parallel operation up to four units. Two units in parallel at I ₁ rated load. I-Share signals connected together. RS+, RS- signals connected together and to the load. Max load at start up 1200 W, operating 2000 W	40	-	60	%I ₁
V1 Remote Sense	RS+ and RS- power path voltage loss compensation	-	-	1.5	%V1
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})	- -	- -	1700 2200 500	ms
Turn-on Overshoot		- -	- -	10 10	%V1 %V _{SB}
Minimum Load	V1, 12V _{SB} , 5V _{SB}	0	-	-	A
Maximum Load Capacitance	V1: 24 V _{DC} V1: 48 V _{DC}	- -	- -	16000 8000	µF
V1 Over Current Protection	V1: 24 V _{DC} V1: 48 V _{DC}			75 37.5	A
12 V _{SB} Output Voltage	V _{SB} output voltage is referred to the same V1 output voltage return	-	12	-	V
12 V _{SB} Output Current	All models up to 70 °C	-	-	0.5	A
12 V _{SB} Ripple & Noise	Peak-to-peak			120	mV
12 V _{SB} Line Cross Regulation	V _{AC} : 85 – 305 V _{RMS} ; I _{SB} : 0 – 100%	-	-	±5	%V _{SB}
5 V _{SB} Output Voltage	V _{SB} output voltage is referred to the same V1 output voltage return	-	5	-	V
5 V _{SB} Output Current	All models up to 70 °C	-	-	1	A
5 V _{SB} Ripple & Noise	Peak-to-peak			50	mV
5 V _{SB} Load, line cross Regulation	V _{AC} : 85 – 305 V _{RMS} ; I _{SB} : 0 – 100%	-	-	±5	%V _{SB}

3.1 OUTPUT POWER DE-RATING CURVES

Front Fan (Models MBE1200-1T24 / MBE1200-1T48)
Any orientation, V1 nominal



U-Chassis and Perforated Cover
Forced Air Cooling (Models MBC1200-1T24-UCF / -PCF)
Air flow from top, V1 nominal



U-Chassis and Perforated Cover
Forced Air Cooling (Models MBC1200-1T24-UCF / -PCF)
Air flow from AC side, V1 nominal

