



**M57145L-01**  
**DC-to-DC Converter**  
**Hybrid Gate Drive Power Supply**

**Absolute Maximum Ratings,  $T_a = 25^\circ\text{C}$  unless otherwise specified**

Item	Symbol	Test Conditions	Limit	Units
Input Voltage	$V_I$	—	18	Volts
Load Current 1	$I_{L1}$	③ pin Output Current	100*	mA
Operating Temperature	$T_{opr}$	No Condensation	-10 ~ 70	$^\circ\text{C}$
Storage Temperature	$t_{stg}$	No Condensation	-20 ~ 85	$^\circ\text{C}$
Electrical Isolation between Input and Outputs	$V_{RMS}$	Sinewave Voltage, 60Hz, 1 min.	2500	Volts

**Electrical Characteristics,  $T_a = 25^\circ\text{C}$ ,  $V_{IN} = 15\text{V}$  unless otherwise specified**

Characteristics	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Input Voltage	$V_I$	Recommended Range	12	—	18	Volts
Output Voltage 1	$V_{O1}$	③ pin Voltage, $I_O = 0 \sim 60\text{mA}$	22.8	24.0	25.2	Volts
Output Voltage 2	$V_{O2}$	② pin Voltage, No Load of ②, ③ pins	7.96	8.2	8.43	Volts
Input Regulation	Reg-I	$I_L = 60\text{mA}$ , $V_I = 12 \sim 18\text{V}$ , No Load of ② pin	—	—	50	mV
Load Regulation	Reg-L	$I_L = 0 \sim 60\text{mA}$ , No Load of ② pin	—	—	50	mV
Efficiency	$\eta$	$I_L = 60\text{mA}$ , No Load of ② pin	—	68	—	%

\*Refer to the Derating Characteristic Curve.

