

FEATURES:

- 2:1 Wide Input Voltage.
- Recognized By UL 60950-1
- 15 Watt Package.
- Efficiency To 80%
- PI Input Filter.
- 1500Vdc Isolation
- MTBF: >1,500,000 hrs
- Operating Temperature: -40°C TO +100°C



Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

Part Number	Input Voltage	Input Current		Output Voltage	Output Current	Efficiency	Capacitor Load
	Vdc	No-Load (mA TYP)	Full Load (mA TYP)	Vdc	Full Load (mA)	%TYP	uF TYP
TOM15-1205-AE	9-18	30	1524	5	3000	82	2200
TOM15-1209-AE	9-18	30	1470	9	1666	85	1000
TOM15-1212-AE	9-18	30	1470	12	1250	85	1000
TOM15-1215-AE	9-18	30	1470	15	1000	85	680
TOM15-1218-AE	9-18	30	1470	18	833	85	470
TOM15-1224-AE	9-18	30	1453	24	625	86	470
TOM15-1205-BE	9-18	30	1524	±5	±1500	82	±1000
TOM15-1209-BE	9-18	30	1488	±9	±833	84	±470
TOM15-1212-BE	9-18	30	1488	±12	±625	84	±470
TOM15-1215-BE	9-18	30	1488	±15	±500	84	±330
TOM15-1218-BE	9-18	30	1470	±18	±416	85	±220
TOM15-1224-BE	9-18	30	1470	±24	±312	85	±220
TOM15-2405-AE	18-36	25	744	5	3000	84	3300
TOM15-2409-AE	18-36	25	735	9	1666	85	1000
TOM15-2412-AE	18-36	25	735	12	1250	85	1000
TOM15-2415-AE	18-36	25	726	15	1000	86	680
TOM15-2418-AE	18-36	25	726	18	833	86	470
TOM15-2424-AE	18-36	25	718	24	625	87	470
TOM15-2405-BE	18-36	25	753	±5	±1500	83	±1000
TOM15-2409-BE	18-36	25	735	±9	±833	85	±470
TOM15-2412-BE	18-36	25	735	±12	±625	85	±470
TOM15-2415-BE	18-36	25	735	±15	±500	85	±220
TOM15-2418-BE	18-36	25	718	±18	±416	87	±220
TOM15-2424-BE	18-36	25	718	±24	±312	87	±220
TOM15-4805-AE	36-72	20	372	5	3000	84	3300
TOM15-4809-AE	36-72	20	367	9	1666	85	1000
TOM15-4812-AE	36-72	20	363	12	1250	86	1000
TOM15-4815-AE	36-72	20	359	15	1000	87	680
TOM15-4818-AE	36-72	20	359	18	833	87	470
TOM15-4824-AE	36-72	20	359	24	625	87	470
TOM15-4805-BE	36-72	20	372	±5	±1500	84	±1000
TOM15-4809-BE	36-72	20	367	±9	±833	85	±470
TOM15-4812-BE	36-72	20	363	±12	±625	86	±470
TOM15-4815-BE	36-72	20	359	±15	±500	87	±330
TOM15-4818-BE	36-72	20	359	±18	±416	87	±220
TOM15-4824-BE	36-72	20	359	±24	±312	87	±220

Input Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Types				2:1	
Filter	Pi TYPE				

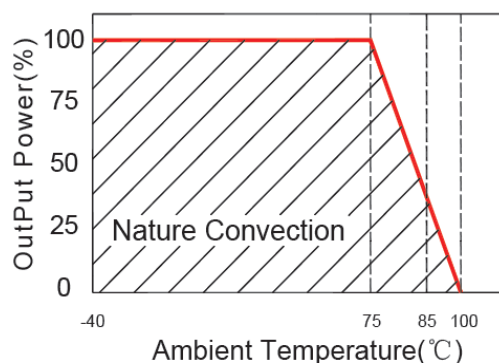
Output Specifications

Parameters	Conditions	Min	Typ	Max	Units
Voltage Tolerance	Full load@Vin(nom.)			±2	%
Short Circuit Protection	Hiccup, automatic recovery				
Line Regulation				±0.5	%
Load Regulation	Single(25% To 100% F.L)			±1.0	%
Load Regulation	Dual(25% To 100% F.L), Balance Load			±2.0	%
Cross Regulation	Dual(25% To 100% F.L)			±5.0	%
Ripple & Noise	BW=DC To 20MHz			100	mVp-p
Transient response setting time	50% load step change		350		us

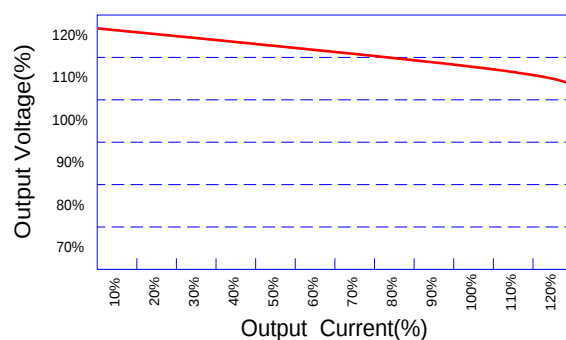
General Specifications

Parameters	Conditions	Min	Typ	Max	Units
Isolation Resistance	500Vdc	1000			MΩ
Switching Frequency			300		KHz
Operating Temperature	With derating	-40		100	°C
Humidity	Non Condensing			95	%
Cooling	Free air Convection				
Case material	Nickel Coated With Non-Conductive Base				
Weight			36.5		g
Dimensions		50.8x25.4x10.6			mm
Potting Material		Epoxy (UL94V-0 rated)			

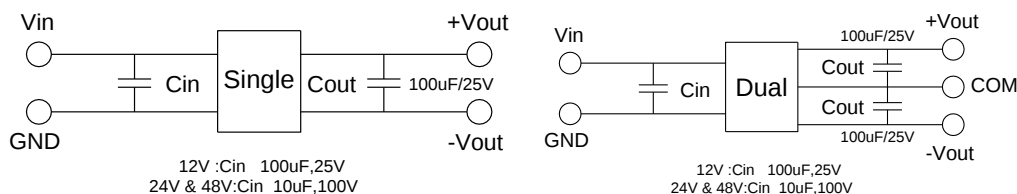
Temperature Derating Graph



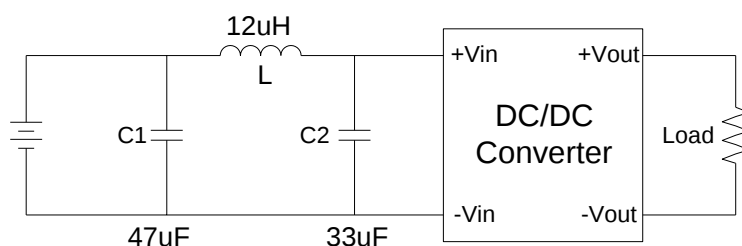
Tolerance Envelope Graph



Recommended Test Circuit

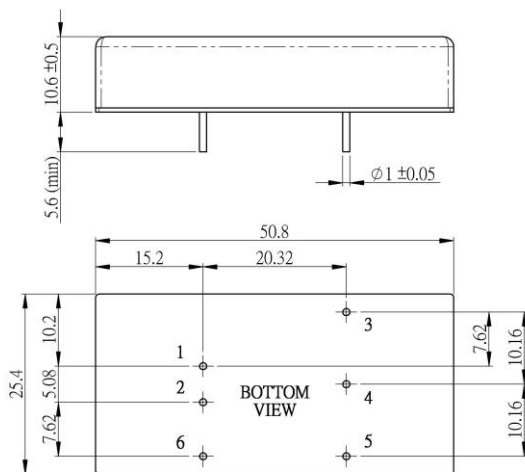


Suggest adding input external filter(C_1, C_2, L) to meet conducted emissions (EN55022 class A)



Markings and dimensions

Part Number



Unit : mm
Tolerance : $XX.X \pm 0.5$, $XX.XX \pm 0.25$

TOM 15 - 24 05 - A E W
A B C D E F G

A : Series DC-DC
B : Output power(W)
C : Nominal input voltage (V)
D : Output voltage (V)
E : A=Single output, B=Dual output
F : Size: E=50.8x25.4x10.6mm
G : Wide input voltage : Blank=2:1, W= 4:1

PIN Assignment

PIN	1	2	3	4	5	6
SINGLE	$+V_{in}$	$-V_{in}$	$+V_{out}$	NO PIN	$-V_{out}$	NO PIN
DUAL	$+V_{in}$	$-V_{in}$	$+V_{out}$	COM	$-V_{out}$	NO PIN