Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

REGULATIONS

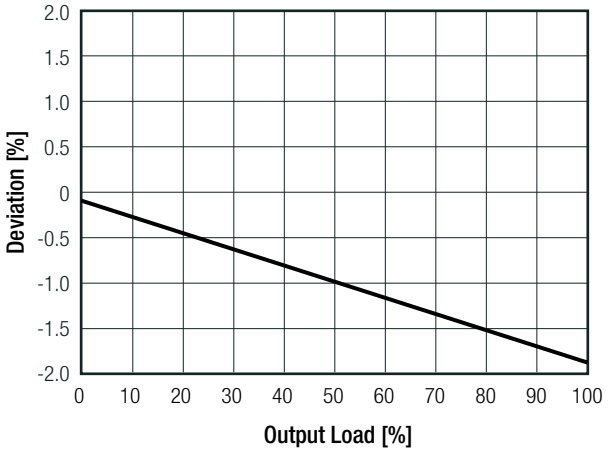
Parameter	Condition		Value
Output Accuracy	100% load		±2.0% typ.
Line Regulation	low line to high line		±0.05% typ.
Load Regulation (6)	10% to 100% load	5Vout	1.5% typ.
		12, 15Vout	0.5% typ.
		24, 36, 48Vout	0.1% typ.
Transient Response	25% load step change		3.0% max.
	recovery time		500µs max.

Notes:

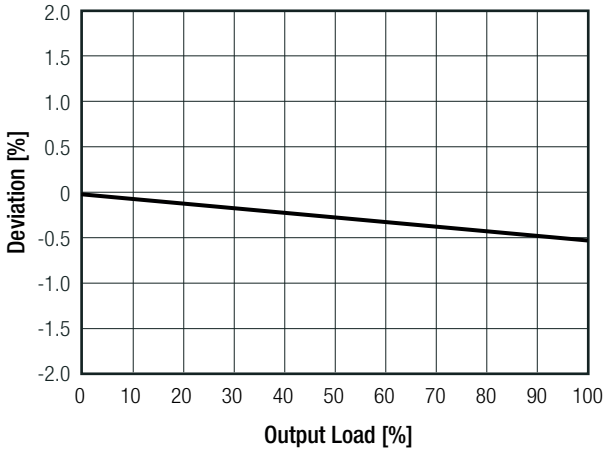
Note6: Operation below 10% load will not harm the converter, but specifications may not be met

Deviation vs. Load

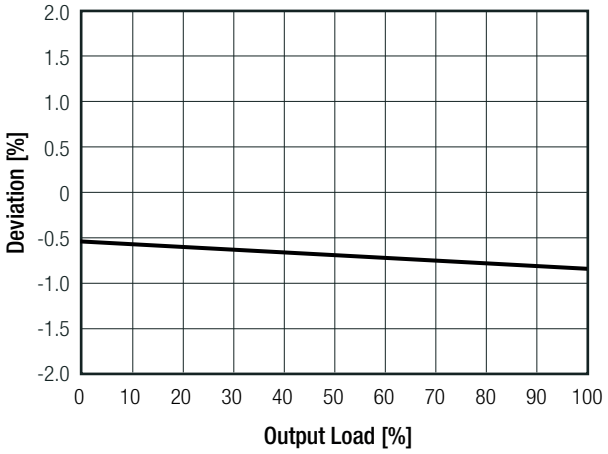
RACM60-05SK



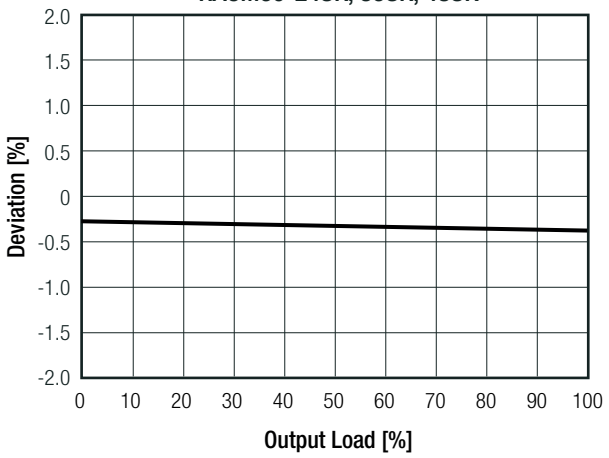
RACM60-12SK



RACM60-15SK



RACM60-24SK, 36SK, 48SK



PROTECTIONS

Parameter	Type	Value
Input Fuse	internal	T3.15A, slow blow type
Short Circuit Protection (SCP)		hiccup, auto recovery
Over Voltage Protection (OVP)		105% - 120%, auto recovery
Over Voltage Category (OVC)		OVCII
Over Current Protection (OCP)		130% - 180%, hiccup mode

continued on next page

Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

Parameter	Type		Value
Thermal Shutdown	TC point IC 101		+130°C, restart after cool down
Class of Equipment			Class II
Isolation Voltage (safety certified) (7)	I/P to O/P	1 minute	4kVAC
Isolation Resistance	I/P to O/P, V_{ISO}= 500VDC		1GΩ min.
Isolation Capacitance	I/P to O/P, 100KHz/0.1V		100pF max.
Insulation Grade			reinforced
Means of Protection	319VAC working voltage		2MOPP

Notes:

Note7: For repeat Hi-Pot testing, reduce the time and/or the test voltage

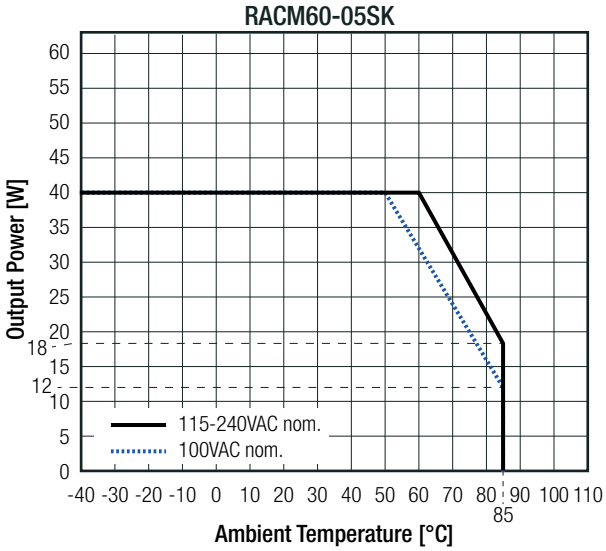
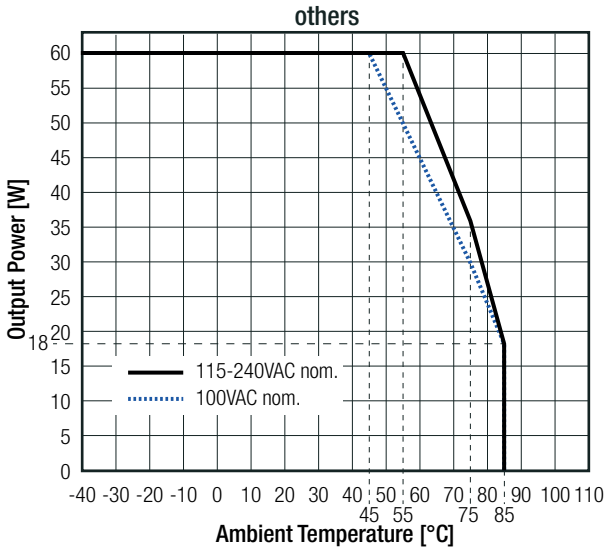
ENVIRONMENTAL

Parameter	Condition		Value
Operating Temperature Range	@ natural convection 0.1m/s	refer to ***"Derating Graph"***	-40°C to +85°C
Temperature Coefficient			±0.02%/K
Operating Altitude (8)	according to IEC60601-1 / IEC62368-1		4000m / 5000m
Operating Humidity	non-condensing		95% max.
Pollution Degree			PD2
Vibration	according to MIL-STD-202G		10-500Hz, 2G 10min./1cycle, period 60min. along x,y,z axes
MTBF	according to MIL-HDBK-217F, G.B.	+25°C +40°C	>900 x 10^3 hours >726 x 10^3 hours
Design Lifetime	nom. Vin= 230VAC, +40°C		>42 x 10^3 hours

Notes:

Note8: Recognized by safety agency for safe operation up to 4000/5000m. High altitude operation may impact the performance and lifetime Please contact RECOM tech support for advice

Derating Graph

(@ Chamber and natural convection 0.1m/s)

Output power derating for Line-input of less than 90VAC
(derate linearly from 100% at 90VAC to 80% at 80VAC)