

PVC 3000B RenE

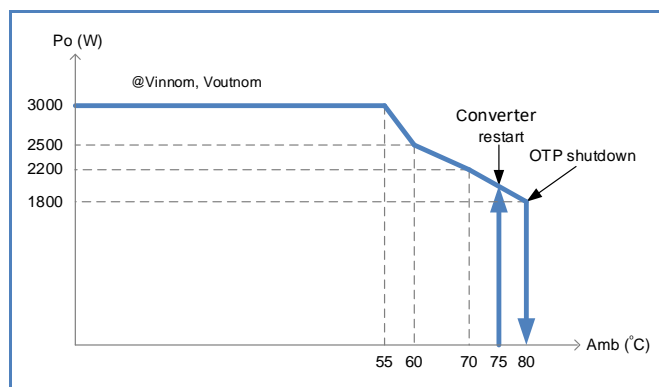
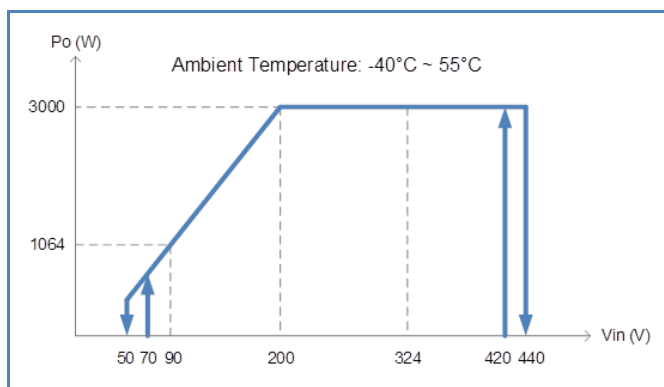
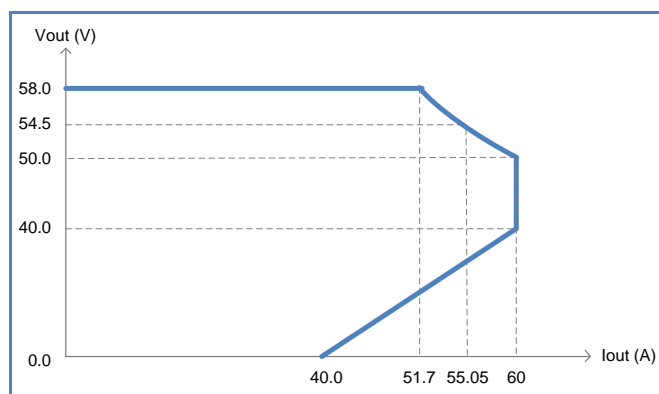
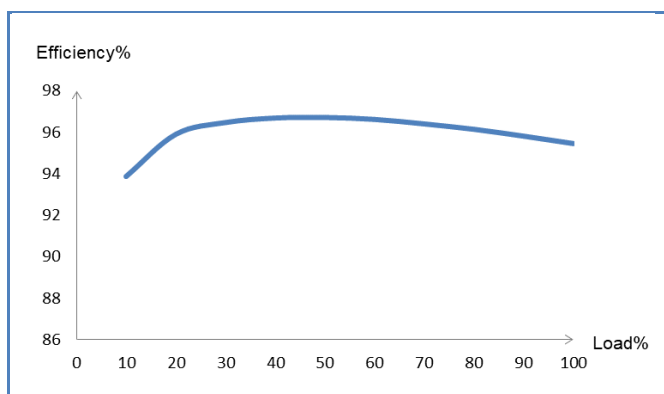
PVC 3000B RenE is the photovoltaic DCDC Converter, and it converts the solar energy to -48V DC. PVC 3000B RenE is designed to connect 3.5kWp of Solar panel for maximum power point tracking and convert into 48V DC to feed telecom Load and can be connected in parallel with Delta rectifier in Delta make SMPS.

This is designed to work in standalone application and the hybrid power applications, such as genset supply, AC grid, wind energy and fuel cell supply. With the modularity, PVC 3000B RenE can be embed in the power system really easy with monitoring and control with Delta controller for source prioritization management.

Due to the high efficient MPPT, the operators can reduce CAPEX on solar panel configuration. Furthermore, the wide input voltage range makes the arrangement of panel more flexible. These gorgeous features help operators to reduce the emission of CO₂, and to make the contribution to the environmental protection



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EGAICA-00-ZL

INPUT

Voltage (nominal)	324 V _{DC}
Voltage (range)	70 – 440 V _{DC}
Max Input Current	16.7 A
Lightening Protection	EN 61000-4-5, 4kV CM / 2kV DM

OUTPUT

Voltage (default)	-54.5 V _{DC}
Voltage (adjustable range)	-42 to -58 V _{DC}
Output Current	55.05 A @ default voltage
Maximum Power @ nominal Input	3000 W
Power Density	56.8 W/in ³
Efficiency	> 96% (Peak)
Static MPPT Efficiency	≥ 99% (European Efficiency) > 99% (CEC Efficiency)
Load Regulation	≤ ± 250 mV (ta0 to 50% Load or 50 to 100% Load)
Ripple	≤ 200 mV
Protection	EN 61000-4-5, 2kV DM

USER INTERFACE

Alarm and Signaling	CANbus to System Controller		
Indications	OK	Green	Normal Operation
	LD	Yellow	Output current < 5%
	COM	Green	Communication Status

MECHANICAL

Dimensions (W x H x D)	84 x 41 x 265 mm (3.30 x 1.61 x 10.43 in)
Weight	1.3 kg (3.0 lb)

ENVIRONMENTAL

Operating Temperature	-40 to +75°C (40 to +167°F); De-rating above +55°C (131°F)
Storage Temperature	-40 to +80°C (40 to +176°F)
Altitude	0 to +4000 m
Related Humidity	0 – 95% RH non-condensing
Acoustic Noise	≤ 58 dBA

STANDARDS

Safety	IEC 62109-1
EMC	EN 55032 DC input Class A and DC output Class A
Environment	RoHS
MTBF	400k hours @25°C (77°F), Telcordia SR-332

ORDERING INFORMATION

DCS-48/60A AB-S	3000W PV Converter
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* All specifications are subject to change without prior notice.