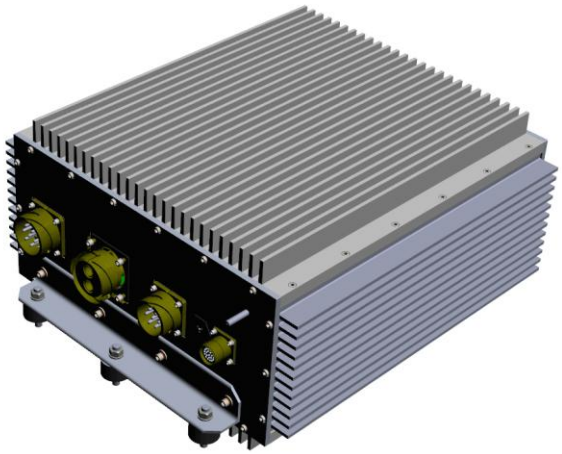
INVERTER-WIND- 600Vdc-240Vac-7200W-S

Catalog Item Number 100-1802-PL-01

FEATURES

- Max continuous output power rating: 7200W
- DC to DC converter employing switch mode technology
- Input voltage range from 80Vdc to 600Vdc
- Output voltage: 208Vac / 240Vac / 277Vac
- Industrial operating temperature range: -25C to +55C
- Vertical installation – wall mount
- RS485 or CAN bus communication interface



ELECTRICAL

Characteristics	Value			Units	Comments
INPUT (DC)	**Min**	**Typical**	**Max**		
Nominal Input Voltage		550		Vdc	
Nominal Input Voltage Range	80		600	Vdc	
Full Power Voltage Range	240		550	Vdc	
Input Low Voltage Shutdown		90		Vdc	Programmable firmware feature upon request
Input Low Voltage Hysteresis	+/-2	-	+/-5	Vdc	Programmable firmware feature upon request
Input Low Voltage Disconnect		80		Vdc	Hardware disconnect feature upon request
Input Low Voltage Hysteresis	+/-2	-	+/-5	Vdc	Programmable firmware feature upon request
Minimum start-up voltage		60		Vdc	Control circuits will be operational above 60V
Input Current	12.5	14	32	Adc	Max current 30A @ 240Vdc input
OUTPUT (AC)					
Nominal Output Voltage	208	240	277	Vac	
Output Voltage Range	183 - 229	211 - 264	244 - 305	V	(Vout nom - 12% < Vout < Vout nom +10%)
Output Power @ Vin Nominal	7200	7200	7200	W	
Nominal Output Current	35	30	26	A	
Max Output Over-Load Current	38	33	29	A	overload for 10 sec
Max Output Overload			110	%	overload for 10 sec
Output Short-circuit Protection	176	204	235	V	If in an overload condition more than 20sec. output voltage drops under limit – short circuit protection is triggered
Efficiency		>95		%	TBD
Output Power Factor		0.99		-	

ENVIRONMENTAL

Characteristics	Value			Units	Comments
	Min	**Typical**	**Max**		
Operating Temperature	-25	-	+55	C	De-rating applies above 50C
Storage Temperature	-45	-	+70	C	
Humidity	10	60	90	%	Non -condensing
Module cooling		Forced Cooling			or Natural Convection – vertical mount with an larger heat-sink – TBD
Module cooling		External Fan			External Fan – optional / system integration

MECHANICAL

Characteristics	Value			Units	Comments
	Min	Typical	Max		
Length		30.0		inch	762.00mm
Width		15.0		inch	381.00mm
Height		10.5		inch	267.00mm (6U)
Weight		TBD		kg	
Mounting				Vertical mount	
Input Wires AWG	10	-	12	AWG	
Output Wires AWG	20	-	12	AWG	
3D Model					File: 100-1802-ASY-01.pdf

PROTECTIONS

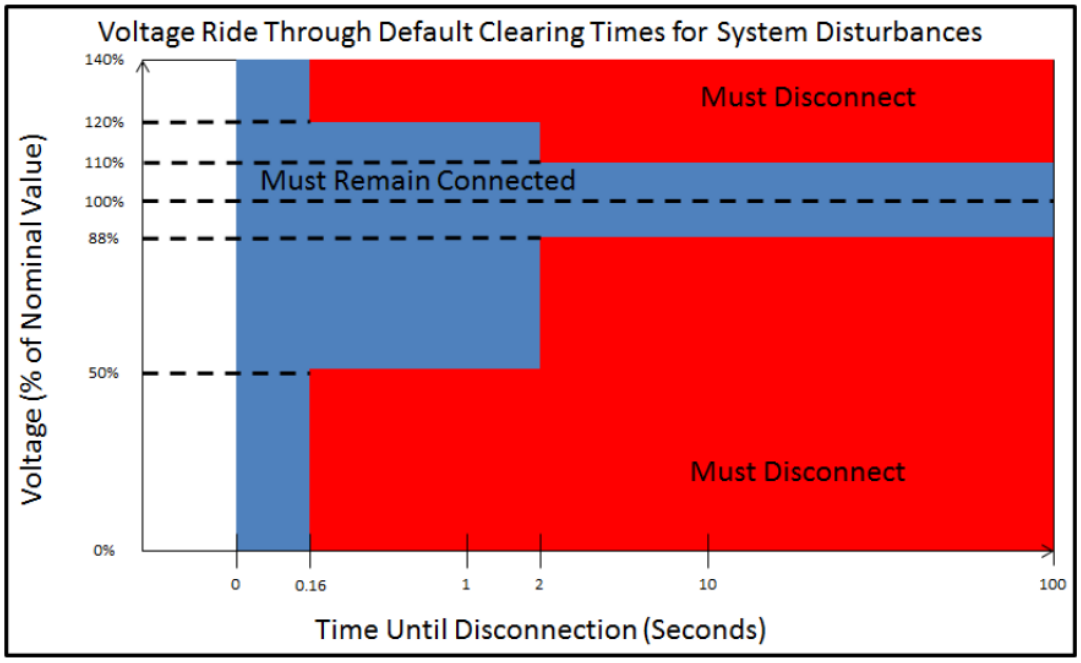
- Ground Fault Monitoring – with visual indication and Communication messaging
- DC reverse polarity protection (DC input)
- DC Input Over-voltage Protection (Vin > 110% Vin max)
- AC Output Over-voltage Protection (Vout > Vout nominal +15%)

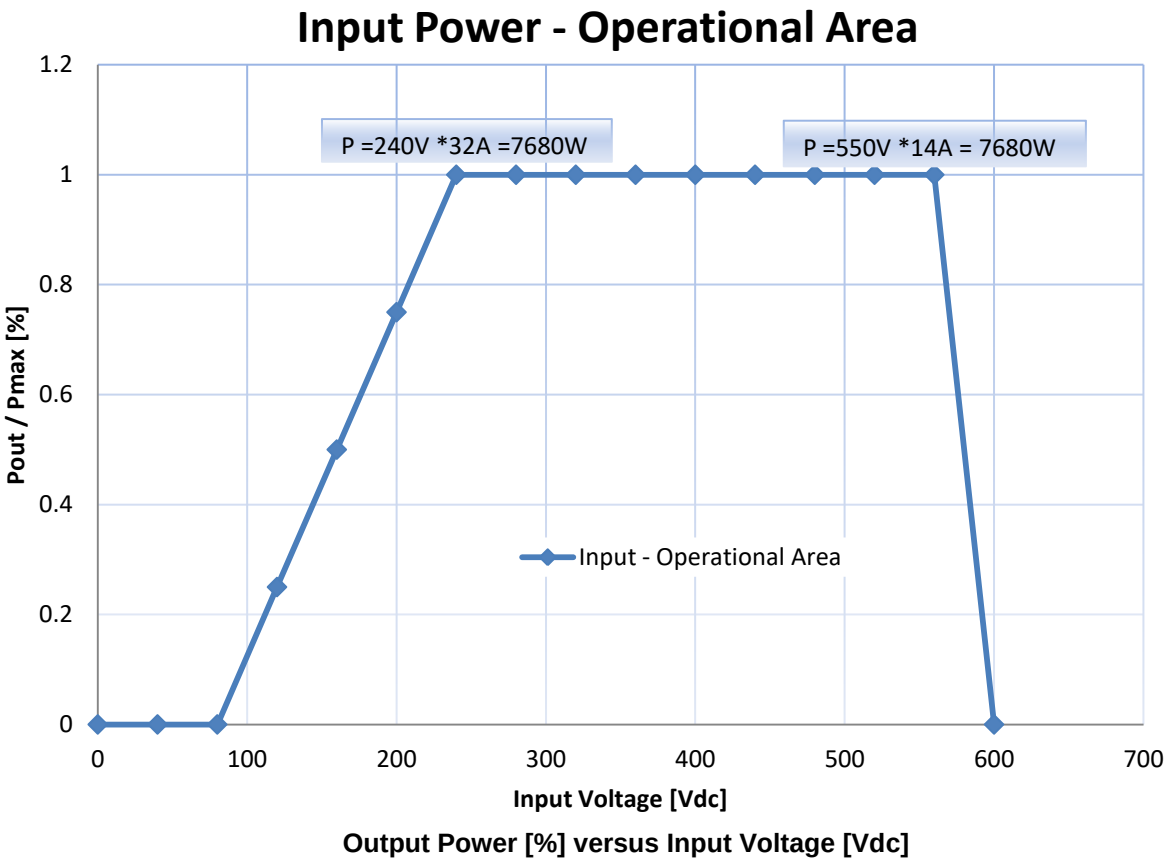
OTHER TECHNICAL DETAILS

- Installation vertical or horizontal – mounting tabs and 4 bolts minimum M8 x 25mm
- Isolation – Input to Chassis – 1500Vdc
- Isolation – Output to Chassis – 1500Vdc
- Isolation – Input to Output – 2000Vdc

CERTIFICATION and COMPLIANCE

- Power Converter compliance with - UL1012; UL 1741
- EMC compliance - Radiated Emissions - FCC Part 15B
- EMC compliance - Electrostatic Discharge - IEC 61000-4-2
- EMC compliance - Surge Immunity - IEC 61000-4-5
- EMC compliance – Radiated Immunity - IEC 61000-4-6
- Enclosure Protection – IP64 / NEMA 3 type enclosure – boards are conformal coated
- Flammability rating – UL94V0
- Grid Tie Power Converter compliance as per IEEE 1547 methods for grid tie related parameters





Output Power [%] versus Input Voltage [Vdc]