



- Provides a complete site power solution supplied directly from 1500V DC
- Provides galvanic isolation between the 1500V DC input and 240V AC output
- High voltage negative is galvanically isolated from protective earth to allow for easy mounting to existing trackside structures
- Temporary service connection between earth and negative to reduce risk to maintenance staff
- No forced ventilation or air conditioner required increasing reliability
- Simple mounting solution for standard structural members

Technical Data

Description	Unit	Value
Nominal Input Voltage	Vdc	1500 Vdc
Input Voltage Range	Vdc	1000 Vdc - 2050 Vdc
Nominal Input Current	A	3.5 A
Maximum Input Current	A	5 A
Efficiency	%	>91%
Output Voltage	Vac	240 Vrms \pm 5%, 50Hz \pm 1%
Output Power (Continuous)	kVA	5 kVA (PF 0.8)
Output Power (5 sec)	kVA	10 kVA (PF 0.5)
Nominal Phase Current	A	20.83 (Continuous)
Output Wave Shape	-	Quasi Sinusoidal
Load Variation	%	0-100%
Current Harmonics (THD)	%	<5%
Reliability	hr	60 000 hr
Temperature	0c	-25 ⁰ c - 45 ⁰ c ambient*
Humidity	-	0-100% non-condensing
Degree of Protection	-	IP 54
Dimensions (L x W x H)	mm	800W x 1200H x 400D
Weight	Kg	150

Auxiliary Components Required

Components required for operation but not supplied are:

- External 1500 VDC fuse
- Overhead line surge protection
- Structure for mounting

System schematic

