



150/240K

AC (On-Grid)	
Max Output Power [kVA]	165
Rated Power [kW]	150
Rated Voltage [V]	400
Rated Current [A]	216
Voltage Range [V]	320-460
Rated Frequency [Hz]	50/60
Frequency Range [Hz]	45-55/55-65
THDi [%]	<3
Power Factor	1lagging-1leading
AC Connection	3W+N+PE
Transformer Ratio	270/400
AC (Off-Grid)	
Max Output Power [kVA]	165
Rated Power [kW]	150
Rated Voltage [V]	400
Rated Current [A]	216
THDu [%]	≤1% linear; or ≤5% non-linear
Rated Frequency [Hz]	50/60
Overload Capacity	110% (5 minutes per 15 minute intervals)
Photovoltaic Input	
Max. PV Input Voltage [V]	1000
Max. PV Power [kW]	120/180/240
MPPT Voltage Range [V]	600-880
String Voltage Constraints	Voc to be 200V to 250V higher than max battery voltage
Battery	
Battery Voltage Range [V]	420-680
Max. Charging Power [kW]	120/180/240
General Data	
Dimension - H x W x D [mm]	2050x1200x800
Weight [kg]	1250/1280/1310
Operating Temperature [°C]	-30 to +55°C
Relative Humidity	0-95% (non-condensing)
Ingress Protection	IP20
Noise Emission [dB]	<70
Altitude [m]	5 000 (derating above 3 000)
Cooling	Air Cooling
Display and Communication	
Display	LCD touch-screen
BMS Communication	RS485, CAN
EMS Communication	RS485, TCP/IP
Certificates	EN62109-1/-2, EN62477-1, EN61000-6-2, EN61000-6-4, South Africa NRS097-2-1:2017, Pakistan & India IEC61727, IEC62116, IEC 61683

Notes to Specification Sheet

1. MPPT Charge Controllers are an optional extra for all HPS Inverters. The HPS 250 and HPS 500 require an additional MPPT Charge Controller Cabinet to house the MPPT Charge Controllers.
2. HPS 250 and HPS 500 do not have an internal bypass switch.
3. Any motors exceeding 7% of the selected HPS inverter's power rating must be fitted with a VSD. The total connected inductive load without VSD's may not comprise more than 15% of the HPS inverter's rated power.
4. Paralleling up to 4 inverters is possible BUT each inverter must have its own battery DC bus.

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Wiring Diagram

