

MODEL

Octane 120.0

BATTERY INPUT

Battery Type	Lithium Ion
Battery Minimum Voltage (V)	624
Battery Maximum Voltage (V)	874
Battery Capacity (KWh)	120
Max. Charging/Discharging Current (A)	240
Max. Charging/Discharging Power (kW)	125
Charging Curve	3 Stages/Equalization

PV STRING INPUT

Max. DC Input Power (kW)	156
PV Input Voltage (V)	800 (160-1000)
MPPT Range (V)	200-850
Start-up Voltage (V)	160
PV Input Current (A)	$(36+36+36+36+36) \times 2$
Max. PV Isc (A)	$(55+55+55+55+55) \times 2$
No. of MPPT Trackers	10
No. of Strings per MPPT Trackers	$(2+2+2+2+2) \times 2$

AC OUTPUT

Rated AC Output and UPS Power (kW)	120
Max. AC Output Power (kW)	132
Peak Power (off grid) (kW)	1.5 times of rated power 10s
AC Output Rated Current (A)	174
Max. AC Current (A)	191.6
Max. Continuous AC Passthrough (A)	400
Output Frequency and Voltage (V)	50/60Hz 230/400Vac 220/380
Grid Type	Three phase
Current Harmonic Distortion	THD<3%

EFFICIENCY

Max. Efficiency	97.6%
MPPT Efficiency	>99%



PROTECTION

PV Input Lightning Protection	Yes
Anti-Islanding Protection	Yes
PV String Input Reverse Polarity Protection	Yes
Over Current Protection	Yes
Output Shorted Protection	Yes
Temperature protection	Yes
Output Over Voltage Protection	DC Type II/AC Type III
DC switch	Yes

GENERAL

Topology	Transformer less
Working temperature	Full power operation at or below 45°C
IP level	IP20
Cooling concept-Battery	Advanced Nano PCM combined with forced convection
Mounting	Ground Mount
Cooling concept-inverter	Intelligent air cooling
Display Type	Colorful touch LCD
Working altitude	<12W

CHARACTERISTICS

AC connector	OT terminal
Communication mode	Ethernet, RS485, CAN

CERTIFICATIONS AND STANDARDS

Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699,C10-11
Safety Regulation	IEC/EN62109-1, IEC/EN62109-2
EMC	IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4