Three Phase On-grid Inverter

VST-(120-150)K

Higher Yield

98.8% max efficiency;
Up to12 MPPTs
with precise MPPT
algorithm

Compatibility

AC output voltage 312 V to 520 V adjustable, compatible with the grids of most countries; Higher DC max input voltage and current

Higher Quality

IP66 ingress protection;
Efficient heat dissipation;
Uvioresistant;
Corrosion resistant

Easy To Use

Multiple ways of testing
and commisioning;
Easy to install

Safety

Ground fault monitoring;
Thunder-proof and
low radiance

Communications

Wifi, 4G, GPRS, Bluetooth, RS485;
Remote monitoring

Product Info

Model	VST-120K	VST-125K	VST-130K	VST-136K	VST-140K	VST-150K
DC Input Data						
Recommended max. PV power(KW)	240	250	260	272	280	300
Max. input voltage(V)	1100V(Recommended 1000V)					
Start-up voltage(V)/ Min. input DC operation voltage(V)	50/40					
MPPT voltage range(V)	100V-1080V(Recommended 100V-900V)					
Max. input current(A)	8*40	8*40	10*40	10*40	12*40	12*40
Max. short circuit current(A)	8*60	8*60	10*60	10*60	12*60	12*60
MPPT number	8	8	10	10	12	12
String number per MPPT/Total Strings	2/16	2/16	2/20	2/20	2/24	2/24
AC output Data						
Rated output power(KW)	120	125	130	136	140	150
Rated/Max. apparent output power(KVA)	120/120	125/125	130/130	136/136	140/140	150/150
Max. active power(KW)	120	125	130	136	140	150
Rated grid output current(A)	173.2	180.6	187.6	196.3	202.1	216.7
Max. output current(A)	173.2	180.6	187.6	196.3	202.1	216.7
Rated grid voltage/range(V) (3P/N/PE)	220/380, 230/400, 240/415, 312~520					
Rated grid frequency(Hz)	50/60					
Power Factor	>0.99, (-0.8 to +0.8 adjustable)					
THDi	＜3%					
Efficiency						
Max. efficiency	98.80%					
EU efficiency	98.30%					
Protection						
Ground fault monitoring	Yes					
Output over voltage protection	Yes					
Anti-islanding protection	Yes					
Integrated AFCI	Optional					
DC reverse-polarity protection	Yes					
Over voltage category	AC ClassIII/PV ClassII					
General Data						
Dimension(mm) (W*H*D)	1339*600*300					
Shell material	Aluminium alloy					
Noise Emission(dB(A))	≤40					
Weight(Kg)	115					
Operating ambient temperature range	-25~60℃					
Topology	Transformerless					
Ingress protection	IP66					
Cooling concept	Smart fan&Natural convection					
Max. operation altitude(m)	3000					
Grid connection standard	AS/NZS4777:2020, EN50549-10:2022, G98:2021, G99:2021, NC RFG, ABNT NBR 16150, VDE-AR-N 4105, CEI0-21, CEI0-16, RD1699, NA/EEA, C10:2019, PPDS:2021, Tor+R25, IEC61683, IEC61727&62161					
Safety/EMC standard	IEC-62109-1/-2, IEC-61000-6-1/-2/-3, NB/T32004					
DC connection	MC4/D4					
Communications	Wifi(2.4G), 4G, GPRS, Bluetooth, RS485					