

Three - Phase Grid Tie Inverter

5 Kw - 10 Kw

Technical Datasheet



CAPACITY (KW)	5	6	7	8	9	10
MODEL NUMBER	VS-502S	VS-602S	VS-072T	VS-082T	VS-092T	VS-102T
INPUT (DC)						
Max. DC input power (KW)	6.0	7.2	8.4	9.6	10.8	12.0
Max. DC I/P (Vdc)	1000V					
Max. MPPT I/P Current (A)	13A					
MPPT Short Circuit Current (A)	20A					
MPPT Tracking Voltage (Vdc)	120-850V					
Min. Start Voltage (V)	140V					
Number of MPPT Tracker	2					
Strings per MPPT Tracker	1					
OUTPUT (AC)						
Rated output power (KW)	5	6	7	8	9	10
Rated Grid Voltage (V) / Range	415(280-455V)					
Rated Grid freq. (Hz) / Range	50Hz (±5%)					
Rated output current AC (A)	7.2	8.6	10.1	11.56	13.0	14.55
AC Connection	3P+N+PE					
THDI (%)	<3%					
Output power factor	0.8 leading to 0.8 lagging					
EFFICIENCY						
Max. conversion Efficiency (%)	98.3					
Max. Euro Efficiency (%)	97.5					
MPPT Efficiency (%)	>99					
PROTECTION						
Anti-islanding Protection	YES					
DC Reverse Polarity Protection	YES					
Insulation Resistance Protection	YES					
Ground Fault Protection	YES					
Output Over Current Protection	YES					
Output Short circuit Protection	YES					
Output Over Voltage Protection	YES					
DC Isolator Switch	YES					
Surge Protection	DC: Type II/AC: Type II					
GENERAL DATA						
Dimensions (W*H*D) mm	330*457*185					
Weight (Kg)	10.0					
Topology	Transformerless					
Noise Emission (dB)	<45dB					
Display	LED with LCD Display					
Cooling Method	Natural Cooling					
Operating ambient Temp.	(-25 C - +65 C)					
Operating Humidity	0% - 100%					
Max. Operating Altitude (m)	2000 (>2000 Derating)					
Ingress Protection	IP65					
Night Consumption (w)	<1					
Standard Warranty						
CONNECTION TYPE						
DC connetors	MC - 4					
Ingress AC plug	IP65 rated plug					
Monitoring System	WiFi/GPRS/RS 485/ETHERNET LAN/Local Monitoring					