



Three Phase String Inverter

ESV- 4 / 5 / 6 / 7 / 8 / 10 / 12 -3P

10 YEAR
WARRANTY



2 MPP tracker, Max,
efficiency up to 98.3%



Zero export application,
VSG application



String intelligent
monitoring (optional)



Wide output
voltage range



Anti-PID function
(Optional)

Technical Data

Model	ESV-4-3P	ESV-5-3P	ESV-6-3P	ESV-7-3P	ESV-8-3P	ESV-10-3P	ESV-12-3P
Input Side							
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1100						
Start-up DC Input Voltage (V)	140						250
MPPT Operating Range (V)	120-1000						200-1000
Max. DC Input Current (A)	20+20						
Max. Short Circuit Current (A)	30+30						
No.of MPP Trackers	2						
No.of Strings per MPP Tracker	1+1						
Output Side							
Rated Output Power (kW)	4	5	6	7	8	10	12
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Three phase						
Rated AC Grid Output Current (A)	6.1/5.8	7.6/7.2	9.1/8.7	10.6/10.1	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	6.7/6.4	8.3/8	10/9.6	11.7/11.1	13.3/12.8	16.7/15.9	20/19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
Efficiency							
Max. Efficiency	98.3%						
Euro Efficiency	97.5%						
MPPT Efficiency	>99%						
Protection							
DC Reverse-Polarity Protection	Yes						
AC Short Circuit Protection	Yes						
AC Output Overcurrent Protection	Yes						
Output Overvoltage Protection	Yes						
Insulation Resistance Protection	Yes						
Ground Fault Monitoring	Yes						
Anti-islanding Protection	Yes						
Temperature Protection	Yes						
Integrated DC Switch	Yes						
Remote software upload	Yes						
Remote change of operating parameters	Yes						
Surge protection	DC Type II / AC Type II						
General Data							
Size (mm)	330W×457H×203D (Excluding connectors and brackets)						
Weight (kg)	11						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25 to +60°C, >45°C derating						
Ingress Protection	IP65						
Noise Emission (Typical)	≤30 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	4000m						
Warranty	10years						
Grid Connection Standard	IEC 61727,IEC 62116,CEI 0-21,EN 50549 NRS 097,RD 140,UNE 217002,G98,G99,VDE 4105						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						