



Three Phase String Inverter

ESV-15/18/20/25-3P

10 YEAR
WARRANTY



2 MPP tracker, Max,
efficiency up to 98.6%



Zero export application,
VSG application



String intelligent
monitoring (optional)



Wide output
voltage range



Anti-PID function
(Optional)

Technical Data

Model	ESV-15-3P	ESV-18-3P	ESV-20-3P	ESV-25-3P
Input Side				
Max. DC Input Power (kW)	19.5	23.4	26	32.5
Max. DC Input Voltage (V)	1100			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	250-1000	200-1000		
Max. DC Input Current (A)	13+26	26+26		
Max. Short Circuit Current (A)	19.5+39	39+39		
Number of MPPT	2			
Strings per MPPT	1+2	2+2		
Output Side				
Rated Output Power (kW)	15	18	20	25
Max. Active Power (kW)	16.5	19.8	22	27.5
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)	22.7/21.7	27.3/26.1	30.3/29	37.9/36.2
Max. AC Output Current (A)	25/23.9	30/28.7	33.3/31.9	41.7/39.8
Output Power Factor	0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion (THDi)	<3%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	45-55 or 55-65 (Optional)			
Efficiency				
Max. Efficiency	98.3%	98.6%		
Euro Efficiency	97.5%	97.83%		
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)	362×527×220 (Excluding Connectors and Brackets)			
Weight (kg)	20			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25 to +65℉, >45℉ derating			
Ingress Protection	IP65			
Noise Emission (Typical)	≤40 dB			
Cooling Concept	Smart cooling			
Max. Operating Altitude Without Derating	4000m			
Designed Lifetime	10years			
Grid Connection Standard	IEC 61727,IEC 62116,CEI 0-21,EN 50549 , NRS 097,RD 140,UNE 217002,OVE-Richtlinie R25,G99,VDE-AR-N 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			