



Three Phase String Inverter
Trio Evo Series
30 / 33 / 35 / 36



Simple. Reliable. Efficient.



High Efficiency



Zero Export



Wide Voltage Range



High PV Voltage



Remote Monitoring



IP65

30kW

33kW

**Trio Evo 30K / Trio Evo 33K / Trio Evo 35K /
Trio Evo 36K /**



Trio Evo Series offers high-power three-phase string inverter solutions developed for commercial and industrial solar energy applications. Its advanced multi-MPPT architecture supports maximum energy yield in large-scale PV installations, while high efficiency and a wide output voltage range ensure stable grid interaction and system reliability. With a robust design, efficient thermal management, and comprehensive protection features, the Trio Evo Series is an ideal choice for durable and long-term solar power systems.



	Trio Evo 30K	Trio Evo 33K	Trio Evo 35K	Trio Evo 36K
PV STRING INPUT DATA				
Max. PV Input Power (kW)	39	42.9	45.5	46.8
Max. PV Input Voltage (V)			1100	
Start-up Voltage (V)			250	
MPPT Voltage Range (V)			200-1000	
Rated PV Input Voltage (V)			600	
Max. Operating PV Input Current (A)			40+40	
Max. Input Short-Circuit Current (A)			60+60	
No. of MPPT Trackers/			2/3+3	
No. of Strings MPP Tracker				
AC OUTPUT SIDE				
Rated AC Output Active Power (kW)	30	33	35	36
Max. AC Output Apparent Power (kVA)	33	36.3	38.5	39.6
Rated AC Output Current (A)	45.5/43.5	50/47.8	53/50.7	54.5/52.2
Max. AC Output Current (A)	50/47.9	55/52.6	58.3/55.8	60/57.4
Rated Output Voltage/Range (V)		220/380V, 230/400V 0.85Un-1.1Un		
Grid Connection Form		3L/N/PE		
Rated Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65		
Power Factor Adjustment Range		0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi		<3%		
DC Injection Current		<0.5%In		
EFFICIENCY				
Max. Efficiency		98.6%		
Euro Efficiency		98.1%		
MPPT Efficiency		>0.5%In		
EQUIPMENT PROTECTION				
DC Reverse Polarity Protection		Yes		
AC Output Overcurrent Protection		Yes		
AC Output Overvoltage Protection		Yes		
AC Output Short Circuit Protection		Yes		
Thermal Protectio		Yes		
Insulation Impedance Detection		Yes		
DC Component Monitoring		Yes		
Arc Fault Circuit Interrupter (AFCI)		Optional		
Anti-islanding Protection		Yes		
Residual Current Detection		Yes		
Surge Protection Level		TYPE II(DC), TYPE II(AC)		
DC Switch		Yes		
INTERFACE				
Communication Interface		RS485/RS232		
Monitor Mode		GPRS/WIFI/Bluetooth/4G/LAN(optional)		
GENERAL DATA				
Operating Temperature Range (°C)		-25 to +60C, >45C Derating		
Permissible Ambient Humidity		0-100%		
Permissible Altitude (m)		4000m		
Noise (dB)		≤60		
Ingress Protection(IP) Rating		IP 65		
Inverter Topology		Non-Isolated		
Over Voltage Category		OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm) (Excluding Connectors and Brackets)		330x572x206		
Weight (kg)		28.7		
Warranty		5 Years		
Type of Cooling		Intelligent Air Cooling		
Grid Regulation		IEC 61727, IEC 62116, EN 50549		
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		