

Commercial Inverters Comparison 2023

Manufacturer	Model	AC-Power (kW)	MPPT	Strings per MPPT	SPD-AC- DC	Weight (kg)	VDE-Certification		Communication	NS Protection	Connection to Radio ripple control receiver (RRCR)	Advantages
							4105	4110				
	Eco 25.0-3-S – 27.0-3-S	25 – 27	1	6	DC SPD type 1 + 2 and DC SPD type 2 optional	35.7	✓	✓	RS485, Ethernet, WLAN, USB	Integrated coupling switch controllable via external grid monitor	Inputs for RRCR on inverter	Integrated data logger and web-server, Snap inverter mounting system
	Tauro	50	3	4/3/7	AC and DC SPD type 1 + 2	92	✓	✓				Available in direct and pre-combined versions for centralised or decentralised systems. A 20A string fuse is built into the direct version. Can be mounted flat on the floor
	Tauro ECO	50 100	1 1	14 22		74 – 103	✓	✓				
	ET-Series (Hybrid)	25 – 29.9	3	2	DC SPD type 2	54	✓	-	RS485, WiFi, Ethernet, CAN	Integrated coupling switch controllable via external grid monitor	Via data logger	Hybrid inverter with integrated switching device for backup power, under 30 kVA, no central NS protection required
	SMT-Series	25 – 36	3	2	AC and DC SPD type 2	40	✓	-	RS485, WiFi			
		50 – 60	5 – 6	2		55						
	MT-Series	50	4	3/3/2/2	AC and DC SPD type 2	59 – 70	✓	-				
		60	4	3								
80	4	4										
HT-Series	100 – 120	10 – 12	2	AC and DC SPD type 2	93.5 – 98.5	✓	✓	(External Box)	Integration into the SEMS portal, high temperature stability: full load up to 50 °C ambient temperature			
	Piko CI 30 – 60	30	2	Total 6	AC and DC SPD type 2	40 – 75	✓	✓	RS485, WiFi, Ethernet	Integrated coupling switch controllable via external grid monitor	Inputs for RRCR on inverter	Commissioning via KOSTAL PIKO CI App
		50	4	Total 10								
		60	4	Total 12								
	STP X	25	3	2	DC SPD type 2 and type 1+2 optional	35	✓	✓	Ethernet, WLAN	Integrated coupling switch (relay) controllable via external grid monitor; I/O interface required	Via I/O interface or SMA data manager	The Core 1 can be wall-mounted or installed stand alone on the floor
	STP CORE1	50	6	2	AC and DC SPD type 2 and type 1+2 optional	84	✓	✓				
	STP CORE2 (AFCI)	110	12	2	AC SPD type 2 and DC SPD type 1+2	93.5	✓	✓	Ethernet	(External box)	Via SMA data manager	Built-in light box protection, Core 2 can only be hung on one wall
	Sunny High-power PEAK3	100 – 180	1	1 or 2 (optional) for external generator-connection-boxes	AC and DC SPD type 2	99	-	✓				100 kW version with 1000 V string voltage, 150 kW, 172 kW and 180 kW versions with 1500 V string voltage
	SE 25K	25	-	-	DC SPD type 2	48	✓	✓	Ethernet, RS485, WLAN	Integrated coupling switch controllable via external grid monitor	Inputs for RRCR on inverter, plug connector required as an accessory	Commissioning via Solaredge Set App, integrated AFCI (arc detection) functionality
	SE 30K – SE 33.3 K	29.9 – 33.3	-	-	DC SPD type 2	36.5	✓	✓				Pre-commissioning function (DC side) possible without AC connection, AFCI
	SE 66.6K – 100K	66.6 – 100	-	-	DC SPD type 2	Synergy unit: 32 kg / Synergy manager: 18 kg	✓	✓				
	SG33CX – SG50CX Premium	33 – 50	3 – 5	2	AC type 2 and DC SPD type 1+2	50 – 62	✓	✓	RS485, WiFi, Ethernet	Integrated coupling switch controllable via external grid monitor	Via data logger, eg. Solar-Log, meteocontrol Sungrow data logger	AFCI, Installation via App
	SG33CX-P2	33	3	2	AC type 2 and DC SPD type 1+2	38	✓	✓				
	SG50CX-P2	50	4	2	AC type 2 and DC SPD type 1+2	41	✓	✓				
	SG110CX Premium	110	9	2	AC type 2 and DC SPD type 1+2	89	-	✓	RS485, WiFi, Ethernet	(External Box)		
	SG110CX	110	9	2	AC and DC SPD type 2	89	-	✓				
	SG125CX-P2	125	12	2	AC type 2 and DC SPD type 1+2	87	✓	✓				
	SG125HX	125	6	2	AC type 1+2 DC type 2	75	-	✓				
SG250HX	250 (at 30°C) 200 (at 50°C)	12	2	AC and DC SPD type 2	95	-	✓	RS485, WiFi				

Commercial inverters at Memodo: from 25 kW
 25 kW – 120 kW AC power with low-voltage grid connection
 Larger inverters with mit low-voltage connection
 Solaredge MPPT: Solaredge power optimiser on each module for optimum MPP range.
 Solar-Log or meteocontrol components can be used as direct distribution interfaces.
 For SMA, the Data Manager can also be used as an alternative.
 All commercial inverters are IP65 or IP66 rated.

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