C6 String Inverter

C6 on-grid PV inverters: ideal for commercial and industrial rooftops, agriculture-fishing PV systems, and distributed projects in challenging terrains. Featuring a self-developed MPPT algorithm with up to 98.8% efficiency, supporting 12 MPPT for versatile module orientations, and a 40A MPPT input current for high-power modules. With 150% DC over-sizing for increased generation and returns. Built to withstand harsh conditions with IP66 protection and IP68 fan cooling. Optional AFCI ensures power station safety. Easily connect to the monitoring cloud platform for comprehensive control and intelligent maintenance.



High Efficiency Power Generation

- Maximum conversion efficiency reaches up to 98.8%
- Maximum string current 20A
- 12 MPPT, 150% PV oversizing

Safe and Reliable

- AFCI reduces the risk of fire
- AC and DC type II SPD ensures safer and more stable operation
- IP66 protection adapts to harsh outdoor environments
- Intelligent air-cooling ensures high reliability and continuous operation

Intelligence and User-friendly

- 7*24 hours monitoring, Real-time access to plant-wide information
- Supportting remotely parameter setting and load monitoring
- Easy upgrades, worry-free, intelligent operation and maintenance

C6-75K-T6-40 | C6-100K-T9-40
C6-110K-T12-40 | C6-125K-T12-40

MODEL	C6-75K-T6-40	C6-100K-T9-40	C6-110K-T12-40	C6-125K-T12-40
DC Input				
Max. PV Array Power [KWp]@STC	144	200	220	250
Max. DC Voltage [V]	1100			
MPPT Voltage Range [V]	180~1000			
Rated DC Voltage [V]	600			
Start Voltage [V]	200			
Min. DC Voltage [V]	180			
Max. DC Input Current [A]	6*40	9*40	12*40	
Max. DC Short Circuit Current [A]	6*50	9*50	12*50	
No. of Strings per MPPT	2			
No. of MPPT	6	9	12	
DC Switch	Integrated			
AC Output				
Rated AC Power [kW]	75	100	110	125
Max. Apparent Power*1 [kVA]	82.5	110	121	125
Rated Output Current [A]@230Vac	108.3	144.3	158.8	180.4
Max. Output Current [A]	119.1	158.8	174.6	180.4
Rated AC Voltage/Range [V]	3+N+PE,230/400			
Rated Output Frequency/Range [Hz]	50,60/45 ~ 55,55 ~ 65			
Power Factor [cos ϕ]	0.8 leading ~ 0.8 lagging			
Total Harmonic Distortion [THDi]	<3%			
Efficiency				
Max. Efficiency	98.8%			
Euro Efficiency	98.5%			
Protection				
Internal Overvoltage Protection	Integrated			
DC Insulation Rsistance Detection	Integrated			
Grid Monitoring	Integrated			
GFCI Monitoring	Integrated			
DCI Monitoring	Integrated			
AC Short Circuit Current Protection	Integrated			
AC Grounding Detection	Integrated			
DC Surge Protection	TypeII			
AC Surge Protection	TypeII			
Anti-islanding Protection	Integrated			
AFCI Protection	Optional			
Interface				
DC Connection	MC4/H4			
AC Connection	OT/DT Terminal(Max.240mm^2)			
Display	LED+APP			
Communication Port	RS232(USB)+RS485(RJ45)+DRM			
Communication	Wi-Fi/Ethernet/4G/PLC(Optional)			
General Parameters				
Topology	Non-isolated			
Consumption at Night [W]	<2			
Operating Temperature Range	-30℃ to +60℃ (45℃ to 60℃ with derating)			
Cooling Method	Intelligent Fan cooling			
Ambient Humidity	0-100% Non-condensing			
Altitude	4000m (>3000m Power Derating)			
Ingress Protection	IP66			
Mounting	Wall Mounting			
Dimensions [H*W*D] [mm]	660*1045*361			
Weight [kg]	93		98	
Warranty [Year]	5/10/15/20			
Applicable Standard	EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1			

Remarks: *1 According to C10/C11, Max. Apparent Power= Rated AC Power.