



Technical Data Sheet of CSIT single phase inverter

Model	FHI-03K1P-EU01	FHI-04K1P-EU01	FHI-05K1P-EU01	FHI-06K1P-EU01	FHI-08K1P-EU01
DC Input					
Max input power (kW)	4.5	6	7.5	9	12
Startup voltage (V)	100				
Max PV voltage (V)	550				
MPPT range/nominal (V)	80~500/360				
Max input current (A)	16/16				16/32
No. of MPPT trackers	2				
No. of strings per MPPT trackers	1/1				1/2
AC Output					
Rated power (kW)	3	4	5	6	8
Max apparent power to grid (kVA)	3.3	4.4	5	6.6	8.8
Max output current(A)	14.3	19.1	21.7	28.7	38.3
Nominal voltage range (V)	230/176~270				
Frequency (Hz)	50/60				
Power factor	0.8 lagging-0.8 leading				
THDi	<3%				
AC output topology	L+N+PE				
Battery					
Battery voltage range (V)	40~58				
Max charging voltage (V)	58				
Max charge/discharge current (A)	60/60	80/80	100/100	120/120	160/160
Battery type	Lithium / Lead-acid				
Communication interface	CAN				
EPS Output					
Rated power (kW)	3	4	5	6	8
Rated voltage (V)	230				
Max output current (A)	14.3	19.1	21.7	28.7	38.3
Rated frequency (Hz)	50/60				
Automatic switching time (ms)	<10				
THDu	<2%				
Overload capacity	110%, 60S/120%, 30S/150%, 10S				
General Data					
Battery charge/discharge efficiency	96%				
DC max efficiency	98%				
EU Effectiveness	97%				
MPPT efficiency	99%				
Ingress protection	IP65				
Noise emission (dB)	<35				



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Operation temperature (°C)	-25~60			
Cooling	Natural			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Dimension W*D*H (mm)	451*200*474			467*200*484
Weight (kg)	18			20
Inverter topology	transformerless			
Self-consumption (W)	<3			
Display and communication				
Display	Opt			
Interface:RS485/Wifi/4G/CAN/DRM	Yes / Opt / Opt / Yes / Yes			
Certification				
CE	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
RoHs	yes			