



## Three Phase 4 MPPTs Hybrid Storage Inverter

The FH-29900T~FH-60000T series hybrid inverters, from 29.9kW to 60kW, are ideal for commercial and industrial use. They support both on-grid and off-grid systems with 4 MPPTs and intelligent energy management for efficient energy conversion. Featuring SiC technology for enhanced efficiency and stability in harsh environments. Dual independent battery inputs support up to 100A charge/discharge per port and 200A parallel current, offering a comprehensive and highly competitive energy storage solution.



### Superior Performance & Efficiency

- 100% three phase unbalanced output
- 4 MPPTs, efficiency up to 99.9%
- 1.67xPV oversizing



### Intelligent Energy Management

- Integrated local and remote EMS
- Support diesel generator
- Provides open API for system integration



### High Safety & Reliability

- All-SiC technology for higher efficiency
- IP66 protection
- Compact design, plug & play installations



### Flexible Expansion & Compatibility

- Supports up to 8 units in parallel
- Enables AC coupling for system retrofit
- Compatible with mainstream Li-ion batteries



### Dual Battery Inputs & High Current

- Dual independent battery inputs, 100A charge/discharge per port
- Up to 200A parallel current



### System Intelligence & Upgradability

- Supports intelligent module integration
- Modular design for easy expansion

Model	FH-29900T	FH-30000T	FH-40000T	FH-50000T	FH-60000T
<b>Inverter Input/Output(Grid)</b>					
Rated Power (kW)	29.9	30	40	50	60
Rated Voltage	380/400V a.c., 3W+N+PE				
Rated Frequency (Hz)	50/60				
Power Factor Range	0.8 leading~0.8 lagging				
Max.Continuous Current (Input/Output)(A a.c.)	90.8/45.4	91.2/45.6	121.6/60.8	152/76	182.4/91.2
Max.Output Overcurrent Protection (A a.c.)	68.1/64.7	68.4/65	91.2/86.6	114/108.3	136.7/129.9
<b>Battery</b>					
Battery Type	Lithium /Lead-acid				
Battery Voltage Range (V d.c)	135-850				
Rated Battery Voltage (V d.c)	150	150	200	250	300
Max.Charge Current (A d.c.)	2*100				
Max.Discharge Current (A d.c.)	2*100				
Reverse Connect Protection	Yes				
<b>PV Input</b>					
No.of MPPT Tracker / Strings	4/2+2+2+2				
Max.PV Input Power (kW)	59.8	60	80	100	100
Max. DC Voltage (V d.c.)	1000				
MPPT Voltage Range (Vd.c.)	150~850				
Start-up Voltage (V d.c.)	200				
Max.Input Current /string (A d.c.)	8*20				
Isc PV (Absolute Maximum) / string (A d.c.)	8*30				
<b>AC Output(EPS) /Generator</b>					
EPS Rated Output Voltage	380/400V a.c., 3W+N+PE				
EPS Rated Output Frequency (Hz)	50/60				
EPS Rated Output Active Power (kW)	29.9	30	40	50	60
EPS Rated Output Apparent Power (kVA)	29.9	30	40	50	60
EPS Rated Output Current (A a.c.)	45.4/43.2	45.6/43.3	60.8/57.7	76/72.2	91.2/86.6
Overload Capacity (Off Grid)	110% 30s/120% 10s/150% 0.2s				
<b>Efficiency</b>					
MPPT Efficiency	99.90%				
Euro-Efficiency	97.50%				
Max.Efficiency	98.50%				
<b>Protection &amp; Feature</b>					
Insulation Monitoring	Yes				
Residual Current Monitoring	Yes				
Parallel Function	Yes up to 8pcs				
Protection Degree	IP66				
Certifications	IEC 62109-1/2, IEC 62477-1, IEC61000-6-2, IEC 61000-6-4, EN 50549-1&-10, NRS 097-2-1 etc.				
Other Protection	Ground fault current monitoring, Earth fault detection, Residual current(RCD) Detection etc.				
<b>General Parameter</b>					
Storage Temperature	-25°C ~ +60°C				
Operating Temperature	-25°C - +60°C(Linely derating to 60% when exceed +45°C - +60°C)				
Humidity	0%-100%(Non-condensing)				
Max.Operating Altitude (m)	4000				
Noise(dB)	<65				
Machine Dimensions(W*H*D) (mm)	544*880*278				
Machine Weight / N.W. (kg)	88				
<b>Display&amp; Communication</b>					
Display	App+ LED/ LCD (-S version)				
Interface	RS485 /WiFi / CAN /DRM (Optional: Bluetooth/LAN / Meter)				

\* The AC voltage and frequency range can differ according to the grid standards of each country.

\* Please note that all specifications are subject to change without prior notice.