

SN20/25/29.9/30/33HT

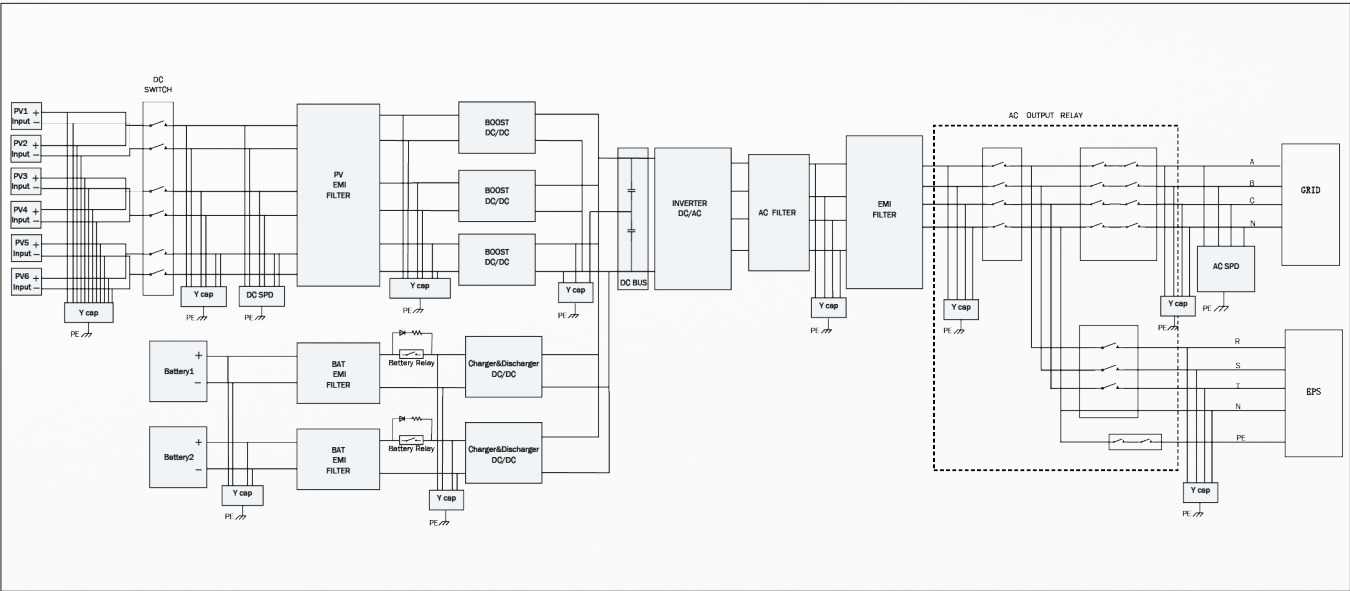
Three Phase Hybrid Inverter/3MPPTs

Features

- Maximum battery input voltage up to 800V
- Compatible with mainstream PV modules
- Two independent battery input terminals
- Built-in arc-fault circuit-Interrupter
- Meter automatic adjustment function
- 110% three phase unbalanced output
- Extra load capacity under EPS mode
- Intelligent monitoring & maintenance



Circuit Diagram



Model	SN20HT	SN25HT	SN29.9HT	SN30HT	SN33HT
Input (PV)					
Recommended max. PV power (STC)	30000W	37500W	45000W	45000W	45000W
Max. PV input voltage ⁽¹⁾	1000V				
Startup voltage	180V				
Nominal PV input voltage	620V				
MPPT operating voltage range ⁽²⁾	160-950V				
Number of PV inputs	5 (3MPPTs, 2/2/1)		6 (3MPPTs, 2/2/2)		
Max. input current per MPPT	32A/32A/20A		40A/32A/32A		
Max. short circuit current per MPPT	50/50/25A		50/50/50A		
Battery parameter					
Battery type	Li-on				
Battery voltage range	180-800V				
Max. charge/discharge current	50A*2				
Max. charge/discharge power	20000W	25000W	30000W		33000W
Grid input/output					
Nominal grid output power	20000W	25000W	29900W	30000W	33000W
Max. grid output power	22000VA	27500VA	29900VA	33000VA	33000VA
Max. grid output current	33.4A	41.7A	45.4A	50.0A	50.0A
Max. input power from grid	37500VA	37500VA	42900VA	42900VA	42900VA
Max. input current from grid	56.9A	56.9A	65.0A	65.0A	65.0A
Nominal grid voltage	3/N/PE,220/380V;230/400V;240/415V				
Nominal grid frequency	50/60Hz				
Harmonic(THD)	<3%				
Power factor range	0.8leading~0.8lagging				
Back-up data					
Rated output power	20000W	25000W	30000W	30000W	33000W
Peak output power	30000,10s;24000,60s	37500,10s;30000,60s	42900,10s;36000,60s		42900,10s;36000,60s
Back up switch time	10ms				
Nominal output voltage	3/N/PE,220/380V;230/400V;240/415V				
Nominal output frequency	50/60Hz				
Efficiency					
Max. efficiency	98.3%				
EU efficiency	97.5%				
Protection					
Anti islanding protection	YES				
Leakage current protection	YES				
PV reverse protection	YES				
Short circuit protection	YES				
Arc-fault circuit-interrupter	YES				
RSD	Optional				
Surge protection	DC II/AC II				
Battery reverse protection	YES				
General data					
Dimensions(W*H*D)	680*554*268mm				
Weight	41kg	42kg			
Installation method	Wall-mounted				
Topology	Transformerless				
Protection degree	IP66				
Operating temperature	-25 ~ 60℃				
Humidity	0~ 100%				
Cooling method	Smart fan cooling				
Max. operating altitude	4000m (>3000m derating)				
Display	LED+Bluetooth/APP				
Communication method	Wifi/4G/Ethernet,RS485,CAN				

(1) Exceeding the maximum input voltage will damage the inverter and trigger its self-protection mechanism.

(2) DC input voltage beyond the MPPT operating voltage range will cause the inverter to be out of work.

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