

SN20/25/29.9/30/33HT

Three Phase Hybrid Inverter/3MPPTs

Safe & Reliable

Built-in arc-fault circuit-Interrupter
Accurate string current detection
Remote fault diagnosis and firmware upgrade capabilities

High efficiency

DC/AC ratio up to 1.5
Extra load capacity under EPS mode
Switch time to EPS mode within 10ms
Max charging/discharging current up to 50A (2 terminals)

User-Friendly Design

100% three phase unbalanced output
180~800V Wide battery voltage range
Adapt to the AC coupling system
Compatible with charging piles, heat pumps, diesel generators
Adaptive adjustment of the phase sequence of the meter



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⁾			160V~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	180V~800V				
Max. charge/discharge current	50A*2				
Max. charge/discharge power	20000W	25000W	30000W	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@220V,31.9A@230V,30.6A@240V	41.7A@220V,39.9A@230V,38.2A@240V	45.4A@220V,43.4A@230V,41.6A@240V	50A@220V,47.9A@230V,45.9A@240V	50A@220V,47.9A@230V,45.9A@240V
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	3L/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	30000VA,10s; 24000VA,60s	37500VA,10s; 30000VA,60s	42900VA, 10s; 36000VA, 60s	42900VA, 10s; 36000VA, 60s	42900VA, 10s; 36000VA, 60s
Back up switch time	10ms				
Nominal output voltage	3L/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°C				
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				
IEC 62109-1/-2, IEC62116, IEC61727, IEC61683, IEC61727, IEC60068, EN50549-1, EN62477, VDE4105					
(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.					