

# Three Phase 17-40kW (New Version)



## Features:

- Intelligent control, 20% more DC input, 10% AC over-load ability
- Intelligent real-time monitoring of DC connectors, much safer
- Up to 300V AC output voltage, suitable for unstable grid. Maximum 1100v DC input voltage




**Technical Date**

Inverter model	ST17KTN	ST20KTN	ST25KTN	ST33KTN	ST36KTN	ST40KTN
<b>Input (DC)</b>						
Max DC power	20.4kW	24kW	30kW	39.6kW	43.2kW	48kW
Max DC voltage	1100V					
Start up voltage	160V					
MPPT voltage range/Rated voltage	200~950V/620V					
Full load MPPT voltage range	450-850V	500-850V	550-850V	500-850V	550-850V	550-850V
Max input current per MPPT	24A+24A		36A+24A	36A+36A		
MPPT tracker/ String per tracker	2/(2+2)		2/(3+2)	2/(3+3)		
<b>Output(AC)</b>						
AC nominal power	17kW	20kW	25kW	33kW	36kW	40kW
Overload capacity	110%					
Nominal AC voltage/frequency	3L/N/PE,220V/380V, 230V/400V, 240V/415V, 50/60Hz/±5Hz					
Max output current	27A	32A	40A	52A	58A	61A
Power factor(Adjustable)	>0.99/0.8 leading~0.8 lagging					
Harmonics(THD)	<2%					
DC injection	<0.5%					
<b>System performance</b>						
Max efficiency	98.40%	98.50%	98.50%	98.60%	98.70%	98.70%
Euro efficiency	98.10%	98.20%	98.20%	98.30%	98.40%	98.40%
MPPT efficiency	99.90%					
Internal consumption(night)	<0.1W					
Electric protection	AC output over-current protection, DC input reverse polarity protection, AC output short circuit protection, AC output over-current protection, Insulation impedance monitoring, Leakage current monitoring, AC and DC surge protection, Anti-islanding protection, Over temperature protection,Over/under voltage & frequency protection.					
Topology structure	Transformerless					
<b>General data</b>						
Net dimension (W*H*D)	685*450*150mm					
Gross dimension (W*H*D)	894*684*300mm					
Net weight/Gross weight	48kg/54kg					
Degree of protection	IP65					
Cooling method	Natural Convection					
Noise(Typical)	<30dBA					
Operation temperature Humidity and Altitude	-25°C~60°C (>45°C Derating) /0~100%(Non-condensing)/4000m (<3000m no derating)					
DC connector/AC connector	MC4 or other same kind of plug and play connectors/Waterproof PG connector+OT terminal					
Communication(RS485/WiFi)	Yes/Opt.					
Certificate	To Be Advised					
Warranty (5/10/15 years)	Standard/Opt./Opt.					