

tPower-NL8.(20~30)KT PV Inverter



Enjoy Green Power

Compatible with household and small-scale industrial and commercial applications
High conversion efficiency, wide voltage range, long-lasting power generation, and higher returns
Multiple communication methods, adapt to various scenarios
Proactively adapting to grids to ensure power generation



Safeguarding

IP66 protection degree, build-in Type II DC & AC SPD, adapt to various harsh environments
PID recovery, extend module's lifespan, and increase power generation
Intelligent arc detection, multiple security protections



Smart Energy

Support I-V scanning and cascaded intelligent diagnosis
CRRC FORESEE Cloud, monitoring the data at anytime & anywhere
Intelligent O&M, remote one-click upgrade

Product Model	tPower-NL8.20KT	tPower-NL8.23KT	tPower-NL8.25KT	tPower-NL8.27KT	tPower-NL8.30KT
DC					
Max. DC input power	30000W	34500W	37500W	40500W	45000W
Startup voltage	180V				
Max. DC input voltage	1100V				
Max. DC input current	36A/18A	36A/18A	36A/18A	36A/36A	36A/36A
MPPT voltage range	160~1000V				
Rated operation voltage	600V				
Number of MPPT	2				
PV strings per MPPT	2/1	2/1	2/1	2/2	2/2
AC					
Rated output power	20000W	23000W	25000W	27000W	30000W
Max. Output power	22000kVA	25300kVA	27500kVA	29700kVA	33000 kVA
Max. Output current	33.4A	38.4A	41.8A	45.1A	50.1A
Rated grid voltage	380Vac, 3L/N/PE				
Grid voltage range	323~418Vac				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45~55Hz/55~65Hz				
Harmonic (THD)	<3% (Rated power)				
Power factor	>0.99 (Rated power) / (0.8leading~0.8lagging adjustable)				
DC component	<0.5% (Rated power)				
Protection					
Grid monitoring	Yes				
DC reverse connection protection	Yes				
AC short-circuit protection	Yes				
Leakage current protection	Yes				
Surge Protection	DC Type II / AC Type II				
Ground fault monitoring	Yes				
DC switch	Yes				
PV String current monitoring	Yes				
AFCI protection	Optional				
PID recovery function	Optional				
System parameters					
Max. efficiency(%)	98.60%	98.60%	98.70%	98.70%	98.70%
European efficiency (%)	98.20%	98.20%	98.30%	98.30%	98.30%
Humidity range	0~100%, No condensation				
Cooling method	Intelligent air cooling				
Operating ambient temperature range	-30~+60°C				
Max. operating altitude	4000m				
Display	LED/APP/Web				
Communication	RS485/Bluetooth/4G (optional) /WiFi (optional)				
Dimensions(W*H*D)	586*462*216mm				
Weight	23kg				
Protection Degree	IP66				
Standard compliance	NB/T 32004-2018; IEC 61727; IEC 62109-1/2; IEC 61000-6-2/4				