

10-80KVA TECHNICAL SPECIFICATION PARAMETERS

Model	TT7310	TT7315	TT7320	TT7330	TT7340	TT7360	TT7380
capacity	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA
System parameters							
Power output by cos ϕ and load							
0.5~0.8 Inductive load	100%						
0.8~1.0 Inductive load	100~80%						
1.0 Linear load	80%						
0.8~1.0 Capacitive load	80%						
0.5~0.8 Capacitive load	70%						
Computer load	80%						
The overall efficiency (normal mode) Load 100%	92%						
Load 50%	90%						
The overall efficiency Load 100%	98%						
Maximum leakage current (mA)	100						
Standby mode of economy	Standard functions						
Mean Time Between Failures (MTBF):	200,000 小时 200,000 hours						
Computer monitor port	RS232, RS485 / MODBUS						
Operating temperature	0 ~ 40 °C						
The maximum relative humidity	95% (non-condensing)						
cooling	Forced ventilation (fan speed with load, temperature changes)						
Maximum altitude	The rated power of 1000 meters (100 meters higher reducing -1%) maximum 4000 meters						
Noise dB	52 ~ 58						
Protection level (EN 60529)	IP20						
in/out line mode	Below/Back						
Safety standards	Safety: GB4943, EN 50091-1; electromagnetic compatibility: GB7260.2, GB/T 17626.2~5EMC, EN 50091-2						
Physical parameters							
Wide (mm) W	600				800		
Deep * Height (mm) D*H	600*1280				800*1480		
Weight Kg	210	220	230	280	330	500	560
Rectifier input							
Rated voltage	380/400/415VAC three-phase three line						
Voltage range	$\pm 15\%$ ($\pm 25\%$ adjustable)						
Rated frequency	50 / 60 Hz automatic identification						
Frequency range	45 ~ 65						
Input power function of slow start	There, 0 - 100%, 10-300 seconds can be set						

The input power factor cos:	Up to 0.99 (plus harmonic filter)						
The input current harmonic component (THD I)	<5% (plus harmonic filter)						
The maximum input current [A]	18	27	36	54	72	108	144
Rectifier output							
maintenance voltage (20 ° C)	Cell type type1 and 2:V =435Vdc (2.266 x el.)						
	Cell type type 3 : V =424Vdc (2.21 x el.)						
	Battery type: Type 0 voltage value between type 1 and 2, voltage regulating range of V =400~460Vdc						
The charging voltage (20 ° C)	Cell type type1 and 2:V (% charge after <95%) =445Vdc (2.32 x el.)						
	Cell type type 3:V (% charge after <95%) =460Vdc (2.4 x el.)						
	Battery type: Type 0 voltage value between type 1 and 2, voltage regulating range of V =400~460Vdc						
The maximum charge voltage	445V						
The charger output voltage accuracy	1%						
DC ripple voltage component	≤1%						
Battery							
The number of units (rated voltage)	The 192 unit (384VDC)						
Charge current setting	0.1A x C10						
Termination voltage battery discharge	Battery type 1, 2 and 3: no-load discharge current, Vmin=346 [Vdc]						
	Battery type: 1, 2 and 3 =Ah output current capacity, Vmin=316 [Vdc]						
	Battery type: 1, 2 and 3 >Ah output current capacity, Vmin=306 [Vdc]						
	Battery type 0 kinds: the factory default values, Vmin=320 [Vdc] Adjustment range Vmin =300~360[Vdc]						
Three-phase inverter output							
Rated capacity of [KVA]	10	15	20	30	40	60	80
Rated power [KW]	8	12	16	24	32	48	64
Rated voltage of [V]	380/400/415VAC three-phase four line						
Rated current [A]	12	18	24	36	48	72	96
The phase voltage settings	200 ~ 244 V (control panel)						
Peak factor (Ipeak/Irms)	3: 1						
Waveform	Sine wave						
Voltage phase shift (degree) 100% load balancing	± 1'						
Voltage phase shift degree 100% unbalanced load	± 2'						
The phase voltage difference 100% load balancing	± 1 %						
The difference of 100% phase voltage unbalanced load	± 3 %						

The total harmonic content (THDv) 100%line load	<2%						
The total harmonic content (THDv) 100%line load	<5%						
Steady state voltage stability	± 1 %						
Transient voltage response	5% in 10ms						
rated frequency	With the same input						
Frequency stability	Asynchronous, ± 0.5%; synchronization, ± 2% (can be set to ± 1~5%, the panel operation)						
overload	600 / 10 / 1 " '(110/125/150% rated current)						
Short circuit in 0.1 seconds	2 times the input						
inverter Efficiency (the load 100%)	96%						
three phase by-pass line input							
rated capacity [KVA]	10	15	20	30	40	60	80
rated voltage [V]	380/400/415VAC three-phase four line						
input voltage scope	± 15% (from the control panel adjustment is ± 10%, ± 20%)						
rated frequency [HZ]	50 / 60						
Frequency range	± 2% (from the control panel adjustment of ± 5%)						
"STAND-BY ON" (economic model, from the bypass switches to inverter) conversion time	2~5ms						
Inverter / bypass switching time	<1ms						
Overload capacity	The 10 '1' /18 "(150/175/200% rated current)						
Standard configuration	The current protection; bypass separated						

100-300KVA TECHNOLOGY SPECIFICATION PARAMETER

Mode	TT73100	TT73120	TT73160	TT73200	TT73250	TT73300
capacity	100KVA	120KVA	160KVA	200KVA	250KVA	300KVA

system parameter						
Power output by cos φ and load						
0.5~0.8 inductive load	100%					
0.8~1.0 inductive load	100~80%					
1 linear load	80%					
0.8~1.0 capacitive load	80%					
0.5~0.8 capacitive load	70%					
Computer load	80%					
The overall efficiency (normal mode) Load 100%	94%					
load 50%	92%					
The overall efficiency (economy): load 100%	98%					
The maximum leakage current	100(mA)					
Standby mode of economy	Standard functions					
The mean time to failure (MTBF):	200000 Special Ops					
Computer monitor port	The standard RS232, RS485 / MODBUS					
Operating temperature	0 ~ 40 °C					
The maximum relative humidity	95% (non-condensing)					
Cooling	Forced ventilation (fan speed with load, temperature changes)					
Maximum altitude	The rated power of 1000 meters (100 meters higher reducing -1%) maximum 4000 meters					
The noise of dB	55~ 60					
Protection level (EN 60529)	IP20					
out/in line mode	blew/back					
Safety standards	Safety: GB4943, EN 50091-1; electromagnetic compatibility: GB7260.2, GB/T 17626.2~5EMC,EN 50091-2					
Physical parameters						
Wide (mm) W	800		1100		1400	
depth*height(mm) D*H	800*1800				1100*2000	
weight kg	800	920	1200	1350	1500	1800
Rectifier input						
Rated voltage	380/400/415VAC three-phase three line					
Voltage range	±15%(±25% adjustable)					
Rated frequency	50/60Hz automatic identification					
frequency scope	45 ~ 65					
input power function of slow start	There, 0 - 100%, 10-300 seconds can be set					
The input power factor cos:	Up to 0.99 (plus harmonic filter)					
The input current harmonic component (THD I)	<5% (plus harmonic filter)					
The maximum input current [A]	180	216	288	360		
rectifier output						

To maintain the voltage (20 ° C)	Cell type type1 and 2:V =435Vdc (2.266 x el.)			
	Cell type type3:V =424Vdc (2.21 x el.)			
	Battery type: Type 0 voltage value between type 1 and 2, voltage regulating range of V =400~460Vdc			
The charging voltage (20 ° C)	Cell type type1 and 2:V (% charge after <95%) =445Vdc (2.32 x el.)			
	Cell type type 3:V (% charge after <95%) =460Vdc (2.4 x el.)			
	Battery type: Type 0 voltage value between type 1 and 2, voltage regulating range of V =400~460Vdc			
The maximum charge voltage	445V			
The charger output voltage accuracy	1%			
DC ripple voltage component	≤1%			
Battery				
The number of units (rated voltage)	The 192 unit (384VDC)			
Charge current setting	0.1A x C10			
Termination voltage battery discharge	Battery type 1, 2 and 3: no-load discharge current, Vmin=346 [Vdc]			
	Battery type: 1, 2 and 3 =Ah output current capacity, Vmin=316 [Vdc]			
	Battery type: 1, 2 and 3 >Ah output current capacity, Vmin=306 [Vdc]			
	Battery type 0 kinds: the factory default values, Vmin=320 [Vdc] Vmin =300~360[Vdc] tuning range			
Three-phase inverter output				
Rated capacity of [KVA]	100	120	160	200
Rated power [KW]	80	96	128	160
Rated voltage of [V]	380/400/415VAC three-phase four line			
Rated current [A]	120	144	192	240
The phase voltage settings	200 ~ 244 V (control panel)			
Peak factor (Ipeak/Irms)	3: 1			
Waveform	Sine			
Pressure phase shift (degree) 100% load balancing	± 1'			
Voltage phase shift (degree) 100% unbalanced load	± 2'			
Phase difference of voltage 100% load balancing	± 1 %			
Phase difference of voltage 100% unbalanced load	± 3 %			
The total harmonic content (THDv) 100% linear load	<2%			
The total harmonic content (THDv)	<5%			

100% nonlinear load				
Steady state voltage stability	± 1 %			
Transient voltage response	± 5% in 10ms			
Rated frequency	With the same input			
Frequency stability	Asynchronous, ± 0.5%; synchronization, ± 2% (can be set to ± 1~5%, the panel operation)			
overload	600 / 10 / 1 " '(110/125/150% rated current)			
Short circuit in 0.1 seconds	2 times the input			
Efficiency of the inverter (Load 100%)	96%			
Three-phase bypass input				
Rated capacity [kVA]	100	120	160	200
Rated voltage [V]	380/400/415VAC three-phase four line			
Input voltage range	± 15% (from the control panel adjustment is ± 10%, ± 20%)			
Rated frequency [Hz]	50 / 60			
Frequency range	± 2% (from the control panel adjustment of ± 5%)			
"STAND-BY ON" (economic model, from the bypass switches to inverter) conversion time	2~5ms			
Inverter / bypass switching time	<1ms			
Overload capacity	The 10 '1' /18 "(150/175/200% rated current)			
Standard configuration	The current protection; bypass separated			