

# LYRA E-CONNECT TOWER ONLINE SELECTION GUIDE

MODEL	Lyra E-Connect Tower IOT T 10K 3-3	Lyra E-Connect Tower IOT T 15K 3-3	Lyra E-Connect Tower IOT T 20K 3-3
Power Rating (VA / Watt)	10000VA/10000W	15000VA/15000W	20000VA/20000W
<b>EFFICIENCY</b>			
Double conversion mode	95%	96%	96%
ECO mode	98%	98.8%	99%
<b>INPUT PERFORMANCE</b>			
Voltage range	160-300V (273-520) 100% load, 100-160V (173-273) derating to 50% load linearly		
Rated frequency	50Hz/60Hz		
Frequency Range	40Hz-70Hz (45Hz-55Hz 54Hz-66Hz @ load>60% and 1 phase in 1 phase out)		
PF	>0.995	>0.995	>0.995
THDI	<3% linear load <5% non-linear load	<3% linear load <5% non-linear load	<3% linear load <5% non-linear load
<b>INPUT CONNECTION</b>	<b>L1/L2/L3/N/PE or L/N/ PE hardware terminal connection Dual input for line and bypass</b>		
<b>OUTPUT PERFORMANCE</b>			
Rated voltage	220/230/240V or 380/400/415V		
Rated frequency	50Hz/60Hz		
Maximum PF	1		
Voltage accuracy	± 1%		
THDv	<1% linear load <5% non linear load		
Transfer time	0ms (2ms @ ECO+ -> Inverter)		
Crest Ratio	max 3:1	max 3:1	max 3:1
Overload	100%<load≤105% continuous 105%< load ≤125% for 10 minutes 125%<load≤150% for 1 minutes >150% for 500ms		
<b>OUTPUT CONNECTION (Wiring/socket)</b>	<b>L1/L2/L3/N/PE or L/N/PE hardware terminal connection</b>		
<b>BATTERY (EUROBAT 6-9)</b>			
Voltage	192VDC (192-240VDC adjustable)	384VDC (384-480VDC adjustable)	
Capacity(AH)	2 x 8 x12V/9Ah, 16-20pcs adjustable	2 x 16 x12V/9Ah, 32-40pcs adjustable	
Backup time Typical value by default battery capacity, PF=1	"1.8min 100% load 4.5min 50% load"	"2.0min 100% load 5.2min 50% load"	"1.8min 100% load 4.7min 50% load"
<b>MAXIMUM CONNECT EXTERNAL BATTERY MODULE QUANTITY</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>CHARGER</b>			
Charging current	2.0A(0-13A adjustable)	1.5A(0-13A adjustable)	2.0A(0-13A adjustable)
Recharging time	3h to 90%		
<b>OTHER WORKING MODE</b>			
CVCF	Yes (derating to 60% load @ 1 phase in and 1 phase out mode)		
Parallell	Optional (up to 3)		

Product specifications are subject to change without further notice

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<b>HMI (HUMAN-MACHINE INTERFACE)</b>			
Display	colour touch LCD (optional Dot matrix LCD)		
Language	10 Languages	10 Languages	10 Languages
USB	USB 2.0 with HID	USB 2.0 with HID	USB 2.0 with HID
RS232	Yes(DB9)	Yes(DB9)	Yes(DB9)
Dry in/out	1 programble dry in; 1 programble dry out		
EPO	yes	yes	yes
Intelligent slot	yes(for long card)	yes(for long card)	yes(for long card)
Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
Modbus card	Optional, CMC/Modbus Long Card		
Dry contactor card	Optional, AS400 Long Card		
WLAN module	Optional,HDMI type	Optional,HDMI type	Optional,HDMI type
Ethernet port for IOT	RJ45	RJ45	RJ45
Monitor software	Winpower	Winpower	Winpower
<b>PHYSICAL PERFORMANCE</b>			
Dimensions (W*D*H) in mm	350*650*890	350*650*890	350*650*890
IP Protection level	IP20	IP20	IP20
<b>ENVIRONMENT</b>			
Operating temperature	0-50°C (power derating to 50% @40-50°C )		
Relative Humidity	0-95%		
Operating Altitude	0~4000m (load derating 1% every 100m up @1000~4000m)		
Acoustic Noise	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged
<b>CERTIFICATION</b>			
<b>CE, IEC/EN 62040</b>			
<b>EMI (Conduction/Radiation)</b>			
	<b>C3</b>	<b>C3</b>	<b>C3</b>
<b>EMS</b>			
ESD	IEC/EN 61000-4-2		
RS	IEC/EN 61000-4-3		
EFT	IEC/EN 61000-4-4		
Surge	IEC/EN 61000-4-5		
<b>ACCESSORY</b>			
Maintenance bypass switch	Standard	Standard	Standard
Input power cable	N/A	N/A	N/A
Output power cable	N/A	N/A	N/A
EXB cable	yes (in EXB)	yes (in EXB)	yes (in EXB)
USB cable	Yes	Yes	Yes
RS232 cable	Optional	Optional	Optional
Manual	Yes	Yes	Yes
<b>NEXT PART NUMBERS</b>			
Lyra E-Connect Tower	77189	77190	77191
LYRA E-Connect EXB Tower (Battery Extension)	66020	66021	66021
NEXT Maintenance Contract	Optional	Optional	Optional
SNMP/Web Interface	99007	99007	99007