

# FARPAK

EP

TL B Series 10~20Kva 3:1phase



## Features

- True double-conversion
- DSP technology guarantees high reliability
- N+X parallel redundancy
- Compatible with 3 phases and single phase input
- Selectable quantity of battery for each group:16/18/20 pieces
- Adjustable charging current via LCD
- 3-stage charging design optimizes battery performance
- ECO mode operation for energy saving
- Self-diagnosis at startup
- Emergency power off function(EPO)
- Maintenance bypass is convenient for maintenance
- Generator compatible
- Communications:RS-232,USB,Parallel card(Optional),SNMP card(Optional), Relay card (Optional) Cold start



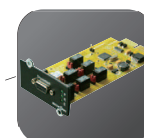
Battery Cabinets.  
(Optional)



Control Panel



Rear Panel



Relay card



SNMP

## Technical Specifications

MODEL	TLB10(I)	TLB10	TLB15	TLB20
Capacity (VA/Watts)	10K / 9K		15K / 13.5K	20K / 18K
<b>INPUT</b>				
Nominal Voltage	380/400/415Vac(3Ph+N+PE) or 220/230/240Vac(L+N+PE)			
Operating Voltage Range	208~478Vac or 120VAC~276Vac			
Operating Frequency Range	50Hz: 45~55Hz, 60Hz: 54~66Hz			
Power Factor	≥ 0.99			
Bypass Voltage Range	Max.voltage: 220V : +25%(Optional +10%,+15%,+20% ) 230V: +20%(Optional +10%,+15%) 240V: +15%(Optional +10% ) Min. voltage: -45% (Optional -20%, -30%)			
ECO Range	Same as bypass			
Harmonic Distortion (THDi)	≤ 5%(100% non-linear load)			
<b>OUTPUT</b>				
Rated Voltage	220/230/240Vac			
Power Factor	0.9			
Voltage Regulation	± 1%			
Frequency	Line Mode	± 1% / ± 2% / ± 4% / ± 5% / ± 10% of the rated frequency(Optional)		
	Bat. Mode	(50/60 ± 0.1)Hz		
Crest Factor	3:1			
Harmonic Distortion (THDv)	≤ 2% with linear load ≤ 5% with non-linear load			
Waveform	Pure Sinewave			
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 0ms			
<b>EFFICIENCY</b>				
Efficiency	Up to 94%		Up to 94.5%	
<b>BATTERY</b>				
Battery Voltage	Selectable Voltage: ± 96/108/120Vdc			
Typical Recharge Time	6~8 hours (To 90% capacity)			
Charging Current	Maximum current 10A			
<b>PROTECTION</b>				
Overload	Line Mode	Load ≤ 125%: last 5min; ≤ 150%: last 1min; > 150% 200ms turn to bypass mode		
	Bypass Mode	63A(Input breaker)	100A(Input breaker)	125A(Input breaker)
Short Circuit	Hold Whole System			
Overheat	Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately			
Battery Low	Alarm and Switch off			
<b>INDICATORS</b>				
Audible & Visual Alarms	Line Failure, Battery Low, Overload, System Fault			
Status LED & LCD Display	Line Mode, Backup Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault			
Parameters On The LCD Panel	Input/Output Voltage, Input/Output Frequency, Load Level, Battery Level, Inner Temperature & Remaining Battery Backup Time			<b>MANAGE-</b>
<b>MENT</b>				
Communication Interface	RS-232,USB,Parallel card(Optional), SNMP card(Optional), Relay card (Optional)			
<b>ENVIRONMENT</b>				
Operating Temperature	0~40°C			
Storage Temperature	-25~55°C			
Humidity Range	0~95% (Non-condensing)			
Altitude	< 1500m			
Noise Level	< 55dB		< 58dB	
<b>PHYSICAL</b>				
Dimension W × D × H (mm)	250 × 597 × 655		250 × 502 × 616	
Net Weight (kg)	76	35	45	46
<b>STANDARDS</b>				
Noise Suppression	Complies with EN62040-2			
Safety	IEC/EN62040-1,IEC/EN60950-1			
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4, IEC61000-4-5,IEC61000-4-6,IEC61000-4-8			
<b>BATTERY PACK</b>				
Model	E×B ± 120V			
Battery type& Max.quantity	7Ah × 40/9Ah × 40			
Dimensions W × D × H (mm)	250 × 502 × 616			
Net Weight (kg)	112			

Specifications are subject to change without prior notice.