

On-Line Three-Phase

## VFI 20k-80k TAP PFI (3-3) BE/BI



ECO Mode  
IGBT PWM Control



Unity  
Power Factor



Optimized Battery  
Management



Touch-Screen



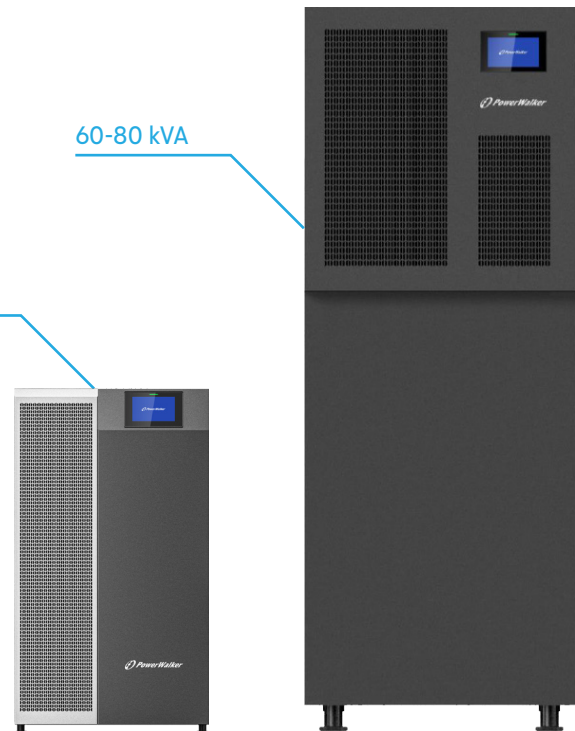
Parallel  
Connectivity



LCD Display

60-80 kVA

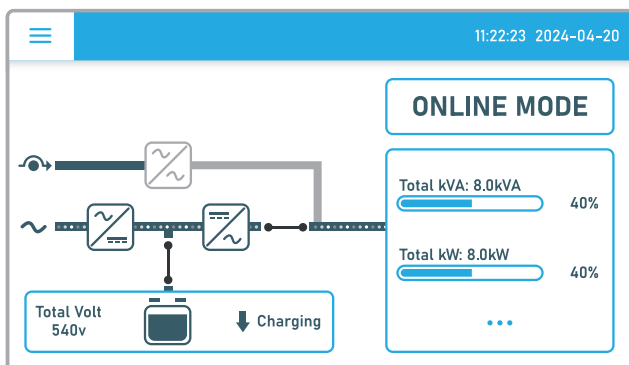
20 - 40 kVA



### Features

- Three-step IGBT PWM control technology, online mode efficiency up to 96%, ECO mode efficiency up to 99%
- Output power factor 1, provides more active power
- Tower UPS, modular design, MTTR < 30 mins
- Higher density reduces up to 50% of the footprint
- Powerful charger declines the charging time dramatically
- Predictable component lifetime enhances system reliability
- Optimized parallel technology, eliminates single point of failure
- Optimized battery management (OBM) technology, extended batteries life by 50%
- Battery 32-44 adjustment provides a more flexible battery configuration
- Up to 4 units parallel

### Convenient Management Touch Screen



- Equipped with a LED status indicator
- A vibrant 5" touch screen with 8 language
- Convenient for users to check the status of the equipment, operation and maintenance operations.



Model	VFI 20k-80k TAP PFI BE/BI				
Capacity					
Power Capacity	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW	80kVA / 80 kW
Input					
Topology	PWM, IGBT based				
Rated Voltage	230/400 Vac nominal (220/380, 240/415 Selectable)				
Voltage Range	-50% ~ +20%, depends on load percentage				
Input Power Factor	0.99				
THD (i)	< 3%				
Rated Frequency	50 / 60 Hz auto sensing				
Frequency Range	40 - 72 Hz				
Output					
Power Factor	1.0				
Efficiency	Up to 96% in online mode; >99% in ECO mode				
Output Voltage	230/400Vac nominal (220/380, 240/415Vac selectable)				
Output Frequency	50 / 60Hz				
Overload Capacity	Depends on battery configuration				
THDV	< 2% for Linear load				
Unbalanced Load	100%				
Crest Factor	3:1				
Bypass					
Internal Static Switch	Standard				
Bypass Voltage	400Vac (+/- 15%)				
Maintenance Bypass Switch	Standard				
Battery					
Batteries	BE: Not Included/ Ext. Battery	BE: Not Included/ Ext. Battery	BE: Not Included/ Ext. Battery	BE: Not Included/ Ext. Battery	BE: Not Included/ Ext. Battery
	Bl: 1*40*8Ah	Bl: 2*40*8Ah	Bl: 2*40*8Ah	Bl: 3*40*8Ah	Bl: 4*40*8Ah
Battery Type	VRLA				
Backup Time	BE: Depends on battery configuration Bl: 3.5min @ 100% load				
Battery Voltage	BE / Bl: 320 V ~ 607 V, default ( 30kVA - 384 V) / (20, 40, 60, 80 kVA - 480 V)				
Communication					
Interface	Interface 2 × Mini-Slot, 1 × Emergency Power Off input (NC or NO), 3 × Building Alarm inputs, 1 × RS232				
Com Cards (Optional)	NMC & CMC cards, relay card, EMP				
Environment					
Running Temperature	UPS: 0 - 40°C; Battery: 25°C				
Storage	-25 ~ 55°C without battery; +15 ~ 25°C with battery				
Humidity	5% ~ 95%				
Elevation	No derating < 2000m				
Noise Level	< =65 dBA at 1 m @ 75% Load (ISO7779)				
Dimension					
Dimension (D×W×H) [mm]	859 × 500 × 887			859 × 500 × 1870	
Regulation					
Safety	IEC/EN 62040-1				
EMC	IEC/EN 62040-2				
Performance	IEC/EN 62040-3				
Certification					
	CE				