

Designed
with the
future in
mind



**LITHIUM
READY**

centiel
continuous power availability

Premium Tower™ 480V

High availability
Three-phase UPS 60kW



READY



SWISS
MADE

Premium Tower™ 480V

PremiumTower 60kW is a Swiss-made three-phase, online double-conversion Uninterruptible Power Supply.

Designed for small and medium data centers, communications rooms, IT networks, and other mission-critical applications where high availability and energy efficiency are required.

PremiumTower offers built-in internal batteries minimizing the footprint utilization, eliminating extra costs for external battery frames and avoiding complex installation.

High operating efficiency up to 96.6% in double-conversion (VFI) mode and up to 99.4% in Ultra-Safe ECO mode - reduces energy losses and supports a lower total cost of ownership.

The flexibility in the number of battery blocks (30 to 50) allows the system designer to optimize costs vs autonomy time.

Proven Reliability

30 years of experience

Efficiency up to 96.6% (VFI)

Up to 99.4% in ECO mode

Unity Power Factor

kVA = kW

Outstanding Overload Capability

Ease of Service

Swappable Plug & Play
Internal Components

Flexibility

Wide Range of Options



Up to **96.6%** **Efficiency**
VFI

Advanced Performance

Unity Power Factor (kVA = kW)

PremiumTower provides a unity power factor that eliminates the need to oversize the system to support today's power factor corrected loads.

High Efficiency 96.6% (VFI)

High efficiency can reduce energy losses and operating costs.

High Battery Charging Current

With the ability to provide up to five times more charging current than a typical standalone, the PremiumTower reduces total system costs by eliminating the need for external battery chargers.

Outstanding Overload Capability

With a 120 % continuous operation in overload conditions, mission-critical applications can be safe in the event of unexpected load demands.

Ultra-Safe Eco Mode

With efficiency of up to 99.4% in ECO mode and an ultrafast response time of <1.9 ms, Ultra-Safe ECO mode supports both power quality and energy efficiency.

Exceptional Short Circuit Capability

With a short circuit capability of 3 times nominal current ($3 \times I_n$), PremiumTower is able to clear output circuit protection in milliseconds.

Advanced Performance

Internal Isolation Transformer

If galvanic isolation, voltage step-up or voltage stepdown is required, PremiumTower can integrate the transformer within the same UPS increasing the flexibility on system development.

Minimized Footprint

With only 0.44 m² for 60 kW, PremiumTower optimizes valuable floor space, eliminates the cost of the battery cabinet, and simplifies the installation.

Ease of Service

Direct access to components and plug-and-play internal modules minimize mean time to repair (MTTR) and simplifies routine maintenance.

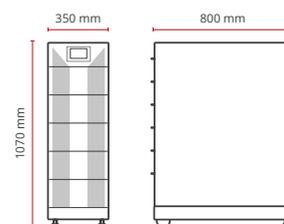
Internal or external batteries

Up to 160 battery blocks can be fitted in the PremiumTower, reducing the total footprint and optimizing costs.

Flexible Battery Range

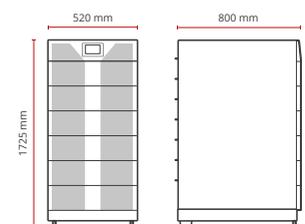
With a wide and flexible battery range of 30 to 50 blocks, costs and autonomy time are optimized.

Tower D



Compact, without internal batteries

Tower E



Up to 160 in-built batteries

30 to 50 Flexible Battery Blocks

Engineered for Reliable Performance

Three independent power converters increase system reliability and provide power continuity even in cases of power component failure.

Swiss Quality

Developed and manufactured in Switzerland, PremiumTower provides a high standard of quality in components and manufacturing processes approved by the Swiss-made label.

Distributed Active-Redundant Parallel Architecture (DARA)

Premium Tower supports parallel operation for redundancy and scalability; maximum configuration depends on system design.

Dual Input Feed

PremiumTower can be supplied with two independent AC sources to further increase the power availability of the installation.

Class Leading Availability

The combination of Swiss Quality and the lowest MTTR gives PremiumTower class leading availability.

Easy to service

Reduced maintenance and repair time helps support high system availability.

Swappable plug and play internal components

Critical components are easily swappable, reducing repair time and costs.

User-friendly display

The display and LED interface (optional touchscreen) give immediate visibility to the status of the UPS.

Always connected

Real-time remote monitoring allows for close control of the UPS parameters, preventing downtime and allowing for proactive maintenance.

Communication

Remote monitoring

Graphical display

Generator operation mode

Auxiliary contacts

Output general alarms

Dry contacts

Programmable input and output

Dry contacts

Compensated battery charging

Temperature probe

SNMP, Modbus, ModBus over IP

Slide-in adaptors

Simplified service

RS232 and Bluetooth app

Technical Datasheet

	Model	UPS-PT060-E-Do UPS-PT060-I160-Eo
General Data	Product name	Premium Tower™ UPS
	Topology/Technology	Online double conversion
Mains	Input wiring	3 Ph + N + PE
	Rated voltage	480Vac
	Voltage range	For loads <100% (-25%, +20%) <80% (-32.5%, +20%) <60% (-35%, +20%)
	Input frequency	40-70 Hz
	Total Harmonic Distortion	THDi<3% for linear load, THDi<5% for nonlinear load
	Input power factor	0,99
Bypass	Input wiring	3 Ph + N + PE
	Rated voltage	480Vac
	Change over tolerance	±30...±10% (Voltage) (According to VFI-SS-111)
	Input frequency	50/60 ±2/4% (selectable)
Battery	Rated voltage	360-600 Vdc (the number of batteries can be selected)
	Internal Batteries (7/9Ah)	E External I160 : 160 Internal
	Type	Lead-Acid/NiCd/Lithium.
	Blocks [LA]/Cells[NicAd]	Flexible:30...50
	Charger (Amp)	40
Output	Output wiring	3Ph+N+PE
	Nominal Power (kVA)	60
	Nominal Power (kW)	60
	Voltage	400/480 Vac±1%
	Frequency	Tracking the bypass input (Online Mode) 50/60 Hz±0,05% (Battery Mode)
	Waveform	Sine wave (THDv<1% for linear load THDv<3% for non-linear load)
	Output power factor	1
	Efficiency	96,6%
	Overload capacity	Inverter < 120% continuous; ≥ 120% for 10 min; ≥150% for 1 min Bypass 135% for long term; <1000% for 100ms
Short circuit capability	3 x IN	
Bypass	Efficiency	99,4%
Others	Dimensions (H x W x D) [mm]	D0 1,075 x 350 x 850 E0 1,725 x 520 x 850
	Weight [Kg] without modules	D 80 E 105
	Colour / Protection Level	RAL 9017 (traffic black) / IP20
	Certifications	EN/IEC 62040-1 EN/IEC 62040-2 EN/IEC 62040-3 CE RoHS
	Communications	Std 1 x RS232, 2 x Dry In, 1 x Dry Out, 2x Expansion slots. Option 5 x Dry Output contacts, 4 x Dry Input contacts, Bluetooth, SNMP Slot

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