



PROTECT FLEX

Modular Industrial UPS with 10-40 kVA

Protect Flex is based on a new concept of UPS systems that combines a modular architecture based on 10 and 15 kVA/kW hot-swappable power modules with a customizable set of options. The system is an industrial-grade fully modular UPS, flexible and highly cost-effective. It can cope effectively with harsh environmental

conditions, with an IP43 rating protection. Protect Flex is designed to maximize savings in terms of footprint and power installed (kVA).



IP43 Protection

Protection against water and dust



Easy Maintenance

Service-friendly design ensures rapid and easy maintenance and minimizes service costs



Industrial-Grade

A robust design crafted for harsh environments and high requirements



Scalability

Parallel operation makes it flexible to adapt the capacity to changing load requirements



Higher Availability

Redundancy capabilities increase the availability of this device to the highest possible level

CAPACITY

10-40 kVA

INPUT PHASES

3 or 1 PH+N+G

INPUT VOLTAGE (L-L)

380/400/415
or 220/230/240

OUTPUT PHASES

3 or 1 PH+N

OUTPUT VOLTAGE (L-L)

380/400/415
or 220/230/240

DESCRIPTION ✓

The Protect Flex of AEG Power Solutions is a new UPS system concept that combines a modular architecture based on 10 and 15 kVA/kW hot swappable power modules, with a large customizable set of options. The system has a robust design which encapsulates AEG Power Solutions' unmatched expertise for industrial applications. It is suitable for harsh environments and is the only one in its category to be configurable to all electrical system schemes with the benefit of power modularity.

- ✓ Tailor made, highly flexible and reliable power protection suitable for difficult environments
- ✓ Maximize savings in terms of footprint (m²), power installed (kVA), electrical system (cabling and protection devices), security (MTTR and MTBF) and most importantly, power management (kW and cost)
- ✓ Scalable architecture reduces CAPEX and optimizes OPEX costs. The power modules use the latest IGBT technology with a low input THDi and almost unity input power factor, even when a low percentage of load is applied: no need for any additional power-consuming filter

- ✓ Fast recharge time even with higher capacity: for long runtimes, the UPS can be installed with one (or more) optional 15 A battery charger
- ✓ On-line double conversion UPS with an internal modular design
- ✓ Optional transformers (inbuilt or external cabinet) available to meet all types of voltage requirements as well as electrical isolation when needed
- ✓ N+1 inbuilt power redundancy architecture
- ✓ VFI SS 111 technology (up to 94 % efficiency)
- ✓ ECO Mode available (up to 98 % efficiency)
- ✓ Input PF > 0.99, THDi < 4 % (without additional filters)
- ✓ Output PF up to unity and compatible with inductive or capacitive loads without derating
- ✓ Ingress protection up to IP43 (more rugged environmental protection available upon request)
- ✓ Integrated static and manual bypass lines
- ✓ Parallel capability up to 160 kVA (4 x 40 kVA in parallel)
- ✓ 7" color Touch Screen graphic
- ✓ Connectivity options: SNMP, Modbus, BACnet®
- ✓ Phase configuration options: 1/1, 3/1 and 3/3
- ✓ Large set of functional options to meet all specific requirements and challenging conditions

SPECIFICATIONS ✓

Model

Protect

Power

Flex

Module

Cabinet

Maximum capacity (kVA/kW)	20 / 20	30/30	40 / 40	10/10
Dimensions W x D x H (mm)	600 x 800 x 1810			438 x 590 x 85 (2U)
Weight (kg)	165	165	175	15.3
Phase configuration	3/3; 3/1; 1/1	3/3	3/3; 3/1; 1/1	3/3; 3/1; 1/1
Color of the frame	RAL 7035			RAL 7021
Input Phase	3 or 1 Phase + N + G	3 Phase + N + G	3 or 1 Phase + N + G	3 or 1 Phase + N + G
Nominal Voltage (V)	Ph-N: 220/230/240	Ph-N: 220/230/240	Ph-N: 220/230/240	Ph-N: 220/230/240
Frequency (Hz)	50 / 60 (with a variable range 40 to 70 Hz)			
Input Power Factor	> 0.99			
Input THDi	< 3% (with full linear			

load)

Output Voltage (V)	380 / 400 / 415
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Output PF	1
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AC/AC efficiency in double conversion	> 95% (at nominal load)
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AC/AC efficiency in ECO Mode	> 98% (at nominal load)
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ACCESSORIES ✓

- ✓ Higher protection degree IP21, IP31, IP41, IP32, IP42, IP43
 - ✓ Cubicle heater
 - ✓ LED (internal) cabinet light
 - ✓ Lifting eye bolts (standard) set of 4 pcs. - up 700 kg
 - ✓ Lifting eye bolts (with UPS with inbuilt transformer) set of 4 pcs
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- ✓ External charger 15A (same dimensions of the Power Module)
 - ✓ Remote Panel
 - ✓ Parallel kit
 - ✓ Battery temperature compensation kit
 - ✓ Monitoring of fans

- ✓ SNMP Card "Budget"
 - ✓ SNMP Card "Professional" with connectors for battery management and environment sensors
 - ✓ Bac Net with RS232 (with Dry contact terminal board)
 - ✓ Dry contact terminal board
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- ✓ 1/1 transformer for common input line
 - ✓ 3/3 transformer for common input line
 - ✓ 1/1 transformer for bypass input line
 - ✓ 3/3 transformer for bypass input line
 - ✓ 1/1 transformer for output line
 - ✓ 3/3 transformer for output line

DOWNLOADS ✓



English



DOWNLOAD

CALL IN THE EXPERTS

We are ready and waiting to offer trusted, expert advice on how to overcome your power challenges and set your organization up for the future. Please get in touch and we will show you what we can do.

Get in touch

SIGN UP TO OUR NEWSLETTER

Be the first to hear about our latest work, insights and successes.

☐

I have read the data protection and accept them.

SIGN UP