



آریاتک  
*Aryatak*

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## Keys

## علائم

Single-phase input and output	<b>1:1</b>	ورودی و خروجی تک فاز
Three-phase input, Single-phase output	<b>3:1</b>	ورودی ۳ فاز : خروجی تک فاز
Three-phase input and output	<b>3:3</b>	ورودی و خروجی ۳ فاز
Single-phase or three-phase input, single-phase output	<b>1-3:1</b>	ورودی تک فاز یا ۳ فاز : خروجی تک فاز
UPS VFD (Voltage Frequency Dependent)		یوپی‌اس‌هایی که ولتاژ و فرکانس خروجی به ولتاژ و فرکانس ورودی وابسته است
UPS Line Interactive (Voltage Independent)		یوپی‌اس‌هایی که ولتاژ خروجی مستقل از ولتاژ ورودی است
UPS Online (Voltage Frequency Independent)		یوپی‌اس‌هایی که ولتاژ و فرکانس خروجی مستقل از ولتاژ و فرکانس ورودی است
Tower		یو پی اس ایستاده
Rack		یو پی اس رک مونت
Rack / Tower		یو پی اس دوگانه: ایستاده / رک مونت
Modular system		یو پی اس ماژولار
UPS suitable for home - small office applications		یو پی اس مناسب منازل و دفاتر کوچک
UPS suitable for datacentre applications		یو پی اس مناسب دیتا سنتر
UPS suitable for electro-medical applications		یو پی اس مناسب مصارف بیمارستانی
UPS suitable for industrial applications		یو پی اس مناسب کارخانجات صنعتی
UPS suitable for transport applications (railways, airports, naval)		یو پی اس مناسب حمل و نقل عمومی (مترو، تجهیزات ریلی و فرودگاهی)
UPS suitable for emergency applications		یو پی اس مناسب مصارف اضطراری



# AEG

## PROTECT PLUS M600

Flexible, scalable and smart

Modular Power Management for highest efficiency and lowest operating costs



1:1

3:1

3:3



### It's our business to make your power security easy

UPS systems from AEG Power Solutions ensure the continuous availability of power and safe operations for critical applications in all environments. AEG PS has a proven track record for developing solutions for highly demanding applications in all types of infrastructures. Since its creation more than a century ago, the AEG name has stood for rugged reliability and world-class engineering, including 60 years' experience in UPS. Our customers know that they can rely fully on us for innovative power solutions that protect their people, their investments, their data, and their business. The modular UPS Protectplus M600 ensures a reliable, secure, clean and continuous power supply to all critical applications. It acts as an interface between the mains power supply and the critical load, in the event of poor quality input waveform (such as an under-voltage, over-voltage, input frequency fluctuations, harmonics, spike or power surges) or a complete and potentially damaging power failure.

### A 30 kVA Power Module

- Isolated airflow with redundant fans

- Independent LCD display for each module
- Autonomous Start-up (independent from the central display)
- Dismountable front panel
- High power density
- Cold start

### Features

- Double Conversion (VFI-SS111-)
- Transformer-less architecture: lower space and weight
- Excellent power capability, up to 900 kVA without additional tools
- 30 kVA hot-swappable power modules for predictive power management and lowest MTTR
- AC/AC Efficiency in double conversion up to 95.5 %
- ECO mode, up to 98.5 % efficiency
- Idle Mode
- Output PF = 0.9
- 10.4" color Touch Screen
- Double doors for back access and easy maintenance
- Intelligent and innovative Self Aging Test
- MoniUPS compatible




# UPS

## Specifications

MODEL	Protectplus M600	Protectplus M600	Protectplus M600
Frame model	Frame 180	Frame 300	Frame 600
Maximum capacity (kVA)	180	300	540 (+ redundancy)
Maximum number of power modules connected	6	10	20
Parallel operation	Up to 3 frames	Up to 3 frames	No
Dimensions W x D x H (mm)	600 x 1100 x 1600	600 x 1100 x 2000	2000 x 1100 x 2000
Weight (kg)	165	220	660
Color of the frame	RAL 7021		
<b>POWER MODULE</b>			
Nominal power (kVA/kW)	30 / 27		
Dimensions W x D x H (mm)	460 x 790 x 134		
Weight (kg)	34		
<b>INPUT</b>			
Phase	3Ph + N + G		
Nominal Voltage (V)	380 / 400 / 415		
Voltage range (V)	304 to 478 V (at full load) 228 to 304 V (with load decreasing linearly)		
Frequency (Hz)	50 / 60		
Frequency range (Hz)	40 / 70		
Power Factor	0.99		
Input THDi	<3 % (with linear load)		
<b>OUTPUT</b>			
Voltage (V)	380 / 400 / 415		
Voltage regulation	1.5 %		
Output THDv	<1 % (with linear load) <6 % (with non linear load)		
Crest Factor	3:1		
Output PF	0.9		
Frequency (Hz)	50 / 60		
Overload capacity	110 % for 60 min 125 % for 10 min 150 % for 1 min >150 % for 200 ms		
AC/AC efficiency in double conversion (VFI)	Up to 95.5 %		
AC/AC efficiency in ECO mode (VFD)	Up to 98.5 %		
<b>BATTERY LINE</b>			
Nominal DC Voltage (VDC)	±240 (with +/N/- connections)		
Quantity of lead acid batteries (12 V each)	40 (settable from 36 to 44)		
Recharge power	10 % System Power (nominal value); Settable: from 0 to 20 % System power		
Temperature compensation (mV/° C)	-3.0 (selectable: 0 to -5.0)		
<b>USER INTERFACE</b>			
Display	10.4" LCD + LED, Color touch screen + Keyboard		
IP protection degree	IP20		
Standard communication ports	RS232; RS485, Dry contacts, USB		
Optional communication ports	SNMP, Expansion Dry contact card		
<b>ENVIRONMENTAL</b>			
Operating temperature (° C)	0 to 40		
Storage temperature (° C)	-40 to 70		
Relative humidity	0 to 95 %		
Noise at 1 m distance (dB)	65 (with nominal load); 62 (with 45 % of load)		
<b>STANDARDS AND CERTIFICATIONS</b>			
Safety	IEC EN 62040-1		
EMC	IEC EN 62040-2		
Test and Performance	IEC EN 62040-3		





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