



آریاتک
Aryatak

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Keys

علائم

Single-phase input and output	1:1	ورودی و خروجی تک فاز
Three-phase input, Single-phase output	3:1	ورودی ۳ فاز : خروجی تک فاز
Three-phase input and output	3:3	ورودی و خروجی ۳ فاز
Single-phase or three-phase input, single-phase output	1-3:1	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} S500

Secure Power, Maximum Efficiency
and a Compact Footprint



3:3



PROTECTplus S500 3-phase UPS 30 – 200 kVA

Highly flexible and smart The Protectplus S500 from AEG Power Solutions is a transformer-less UPS that combines high AC/AC efficiency values with a compact footprint and flexible configurations. Using full IGBT double-conversion technology, PROTECTplus S500 combines a low input THDI with a near to unity input power factor. It is the ideal solution for small and medium critical power applications where low power consumption, a compact footprint and ease of maintenance are important considerations.

Reduced overall cost of ownership through efficiency and optimized footprint The PROTECTplus S500 is a double conversion UPS (VFI SS 111), offering an AC/AC efficiency up to 95.5 %. It can operate in ECO Mode, with efficiency up to 99 %, thus reducing the utility costs associated with operating a device of this type. Moreover, it produces less heat waste resulting in minimized air conditioning costs. Up to 80 kVA, the PROTECTplus S500 battery solutions may be integrated inside the UPS cubicle; up to 100 kVA including an input isolation transformer (as option), for full galvanic isolation, in the same cubicle.

Great flexibility and maintainability PROTECTplus S500 UPS provides easy access for maintenance and has a low Mean Time To Repair (MTTR) thanks to its use of removable power modules. The hot connection and disconnection of parallel units and the CAN bus based distributed control systems, ensures optimum load sharing and allows the system to be easily expanded.

PROTECTplus S500 has a Dynamic Charging Mode (DCM). From 60 kVA, PROTECTplus S500 UPS can be installed with a larger charger for use with higher capacity battery sets required for long autonomy times.




UPS

Specifications


POWER RATING MODEL	30	40	50	60	80	100	125	160	200
Nominal Apparent Power [kVA]	30	40	50	60	80	100	125	160	200
Nominal Active Power [kW]	27	36	45	60	80	100	125	160	200
Dimensions W x D x H [mm]	505 x 940 x 1505			560 x 940 x 1800					850x953x1976
Weight (without batteries) [kg]	140	150	190	250	300	320	360	380	720
MAINS INPUT (RECTIFIER)									
Phase	3Ph + N + G								
Nominal Voltage [V]	380 / 400 / 415								
Voltage Range [V]	-20 % / +15 %								
Frequency [Hz]	50 / 60								
Frequency Range	±10 %								
Power Factor	> 0.99								
Input THDi (at rated voltage and THDv < 0.5 %)	< 3 % (with full linear load)								
BYPASS INPUT									
Nominal Bypass Input Voltage [V]	380 / 400 / 415								
Bypass Input Voltage Range	±10 %								
Bypass Input Frequency [Hz]	50 / 60								
Bypass Frequency Range [Hz]	Nominal: ±10 %								
Overload Capacity on Bypass Line	150 % continuously up to 1000 % for 20 ms								
OUTPUT (INVERTER)									
Voltage [V]	380 / 400 / 415								
Output THDv (according to IEC EN62040-3)	< 1 % (with linear load) < 5 % (with non linear load)								
Transient Response	±5 % for dynamic step load (20 % – 100 % – 20 %)								
Transient Recovery (after step load)	< 20 ms								
Output PF	up to 0.9			up to 1					
Crest Factor	3:1								
Frequency [Hz]	50 / 60								
Slew Rate [Hz/s]	< 1								
Overload Capacity through Inverter Line	< 125 % for 10 min < 150 % for 30 s > 150 % for 100 ms								
Short Circuit Current [A]	78	104	130	200	264	331	414	531	720
AC/AC Efficiency in Double Conversion	> 95 % (at nominal load)								> 95.5 %
AC/AC Efficiency in ECO mode	> 98 % (at nominal load)								> 99.0 %
BATTERY									
Nominal DC Voltage [VDC]	±360 (with +/- connections)								
Quantity of Lead Acid Batteries (12 V each)	60 (settable from 60 to 62)								
Recharge Current	10 A	8 A	15 A	15 A (at rated load) 50 A (with DCM)	15 A (at rated load) 50 A (with DCM)	15 A (at rated load) 50 A (with DCM)	20 A (at rated load) 50 A (with DCM)	20 A (at rated load) 50 A (with DCM)	30 A (at rated load) 100 A (with DCM)
USER INTERFACE									
Display	LCD display								10" color touchscreen
IP Protection Degree	IP20 (standard); other values upon request								
Standard Communication Ports	RS232, USB								
Optional Communication Ports	SNMP, dry contact relay card, Modbus								
GENERAL									
Protection Degree	IP 20								
Color	RAL 9005								
Operating Temperature [°C]	0 to 40								
Storage Temperature [°C]	-10 to 70								
Relative Humidity	0 to 95 %								
Altitude (above sea level) [m]	< 1000 (with power derating of 0.5 % every 100 m up to 2000 m, according to IEC EN 62040-3)								
Noise at 1 m distance [dB]	< 52	< 52	< 57	< 60	< 60	< 60	< 60	< 60	< 65
STANDARDS AND CERTIFICATIONS									
Marking and Certifications	CE								
Safety	IEC EN 62040-1								
EMC	IEC EN 62040-2								
Test and Performance	IEC EN 62040-3								





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