

Power Factor controller - VarPlus Logic - VPL 6

VPL06N

Main

Range	PowerLogic	
product name	PowerLogic PFC Controller	
Product or component type	Power factor controller	
Device short name	VPI 6	

Complementary

Number of step output contacts	6	
[Us] rated supply voltage	90550 V AC <= 999 kV AC with external VT	
Measurement current	05 A	
Measurement voltage	90550 V AC 50/60 Hz	
Operating mode	Manual or automatic	
Number of quadrant operation for generator application	4	
Device connection	Communication protocol: Modbus interface: RS485	
Input function	Switch: 1 x dry contact	
Colour code	Front: dark grey RAL 7016	
Display type	Backlit LCD	
Display size	56 x 25 mm	
Function available	Automatic detection Advanced programming (expert) Manual programming Any step sequence Automatic initialisation	
Metering type	Power factor and displacement PF (signed, four quadrant) Total current harmonic distortion THD (I) Power factor average over lifetime Temperature maximum Phase current I1, I2, I3 RMS on load Active power P, P1, P2, P3 on load Reactive power Q, Q1, Q2, Q3 on load Apparent power S, S1, S2, S3 on load Voltage U21, U32, U13, V1, V2, V3 on load	
Type of measurement	Ambient temperature inside the cubicle Tan ϕ Individual voltage harmonic Cos ϕ Operating time Power factor	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Capacitor current overload Irms/I1

Information displayed	Number of switching cycles per step Remaining step capacity in % Individual step size in kVAr
Type of alarms	Step power loss (< 75 %) / Action: message and alarm contact + step blocked Step faulty / Action: message and alarm contact + step blocked High current (> 6 A CT) / Action: message and alarm contact Hunting (unstable regulation) / Action: message and alarm contact + step blocked Low current (< 15 mA CT) / Action: message and alarm contact Overcompensation / Action: message and alarm contact Capacitor current overload (Irms/I1) (> 130 % I1) / Action: message and alarm contact + step switched off Overtemperature (50 °C) / Action: message and alarm contact + step switched off Overtemperature (30 °C) / Action: fan switch Overvoltage (+/- 10 %) / Action: message and alarm contact + control stopped Total harmonic distortion (> 7 %) / Action: message and alarm contact + step switched off
Data recording	5 alarms
Operational Hours alarm	100000 h without maintenance
Operational counter alarm	65000 cycles without maintenance
Input type	Insensitive to phase rotation polarity Insensitive to CT polarity Phase to neutral Current input CTX/5 A and X/1 A Phase to phase
Output type	Control relay: 0.2 A 110 V DC Control relay: 1 A 48 V DC Control relay: 2 A 400 V AC 50/60 Hz Control relay: 1 A 24 V DC Control relay: 5 A 250 V AC 50/60 Hz Control relay: 5 A 120 V AC 50/60 Hz Control relay: 5 A 120 V AC 50/60 Hz Fan: 5 A 250 V AC 50/60 Hz Fan: 1 A 48 V DC Alarm relay: 5 A 250 V AC 50/60 Hz Alarm relay: 1 A 48 V DC
Maximum at the common terminal	10 A
Settings operating mode	Manual Automatic
Type of setting	Choice of stepping programs: auto Choice of stepping programs: LIFO Choice of stepping programs: linear Delay between 2 successive switch on the same step: 51200 s Step configuration programming: auto Step configuration programming: off Step configuration programming: fixed Target cos phi: 0.7 inductive0.7 capacitive Target cos phi: dual cos φ
Measurement accuracy	Voltage +/- 1 % Current +/- 1 % Frequency +/- 1 % Energy (P,Q,S) +/- 2 % Cos φ +/- 2 % Total voltage harmonic distortion THD (U) +/- 2 % Individual voltage harmonic +/- 3 % Temperature +/- 3 °C
Time delay range	16500 s (on reconnection) 16500 s (on response)
Provided equipment	User manual
Mounting mode	Flush-mounted
Mounting support	Panel - thickness: 13 mm
Mounting location	In cabinet
Cut-out dimensions	138 x 138 mm
Height	144 mm

Width	144 mm
Depth	58 mm
Net weight	0.6 kg
Compatibility code	VPL 6

Environment

Standards	IEC 61000-6-2 EN 61010-1 IEC 61000-6-4 IEC 61326-1 UL 61010-1	
Product certifications	EAC NRTL cNRTL CE	
IP degree of protection	Front face: IP41 Rear face: IP20	
Operating altitude	<= 2000 m	
Ambient air temperature for operation	-2060 °C	
Ambient air temperature for storage	-4085 °C	

Packing Units

PCE
1
9.200 cm
17.800 cm
18.400 cm
696.000 g
S03
8
30.000 cm
30.000 cm
40.000 cm
6.050 kg
P06
64
75.000 cm
60.000 cm
80.000 cm
60.348 kg



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	227
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins