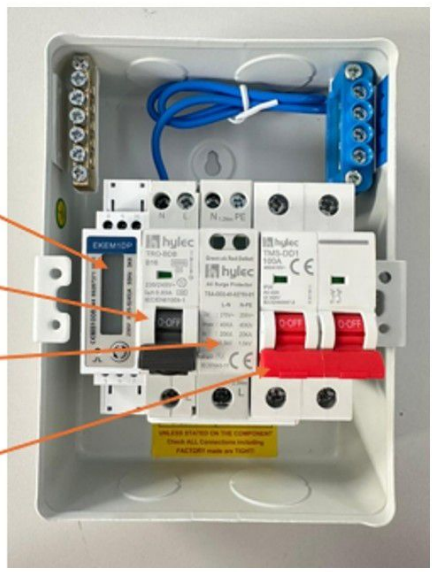
PV Control Unit and Components datasheet

Range: Solar Power Connection

Order Codes: TPV-5KA-16A/20A/25A/32A/40A-GS



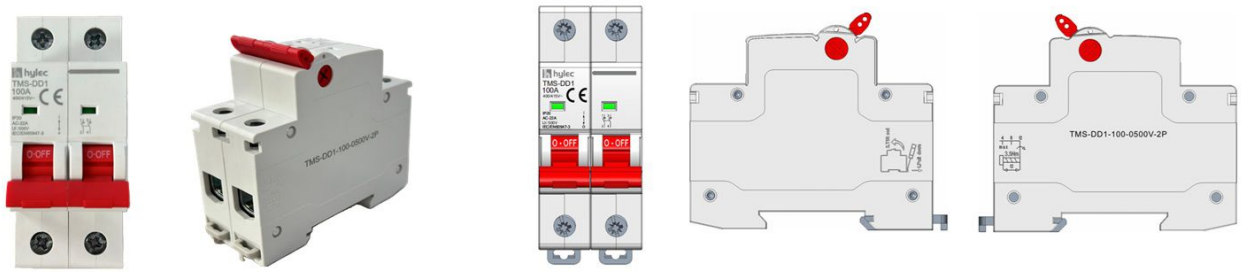


DESCRIPTION

Designed for indoor installation, the Hylec PV Control consumer unit range features robust metal enclosures, each complete with an MID approved, Bi-Directional Gen meter, a choice of 16A, 20A, 25A, 32A and 40A RCBOs, an integrated Surge Protection device and a Main Switch.
This sleek, high-quality solution enables quick installation, while ensuring full compliance with UK regulations.

PV Control Unit TPV-5KA-1xxA-GS - Component Datasheet

Main Switch - 2P, 100A, 400/415V (Ui)
Single Screw Terminal, Bi-Directional



Specifications and Features

- On and Off indicator
- Conforms to Standard IEC60947-3
- "On/Off" switch corresponds to the state of the contacts
- Fast installation and removal

Technical Data

Electrical Features	
Rated current (In)	6A 10A 16A 25A 32A 40A 50A 63A 80A 100A 125A
Pole	1P 2P 3P 4P
Voltage and Frequency	230/240V~,50/60Hz
Insulation voltage (Ui)	500V
Rated short-time withstand current (Icw)	12Ie 1s
Rated short circuit making capacity	20Ie,t=0.1s
Using the categories	AC-22A
Electrical life	1500
Mechanical life	8500
Terminal connection type	Cable busbar
Tightening torque	3.5N·m
Pollution degree	2
Protection Grade	IP20

PV Control Unit TPV-5KA-1xxA-GS - Component Datasheet

RCBO - 1P, Curve B, 30mA, 6kA(Icn), Ue 230/240 Type A, With Wire, Bi-Directional

Control Unit is available with 16A RCBO as standard

Also available with 20A, 25A, 32A or 40A RCBO



Specifications and Features

- Installation on 35mm standard DIN rail
- Protects both people and Equipment

Technical Data

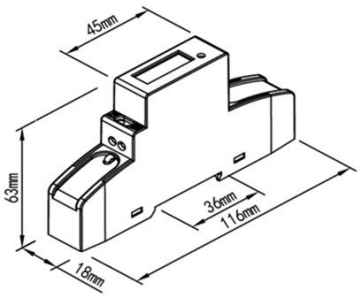
Electrical Features	
Pole	1P+N
Standard	IEC61009-1
Rated brecking capaicity	4500A,6000A
Rated current of structure design	32A
Voltage and frequency	230/240V~,50160Hz
Rated current	6,10,16,20,25,32A,40A
Rated tripping current lan	10,30,100,300mA
Max.breaking time	0.1S
Mechanical life	4000times
Usage types	AC-22
Protection grade	IP20
Max.cable size	10mm²

PV Control Unit TPV-5KA-1xxA-GS - Component Datasheet

Gen Meter - 1P, 45A, 230VDC, 50Hz, MID, Bi-Directional, LCD Display







Specifications and Features

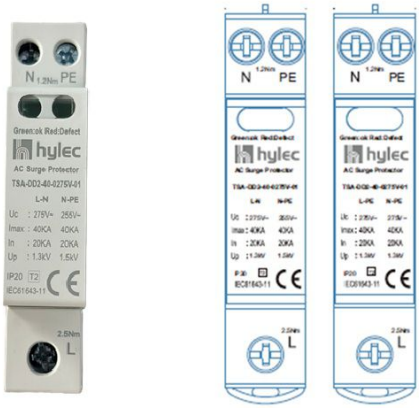
- Measures kWh, kVArh, kW, kVAr, kVA, PF dmd, V, A, etc.
- Bi-Directional measures IMP and EXP
- One pulse output, active energy pulse
- RS485, Modbus_RTU
- Installation on standard 35mm DIN rail
- 45A directly connected
- Degree of protection according to IEC 60529: IP20
- MID approved

Content	Parameters
Standard:	EN50470-1/3
Rated Voltage:	230V
Rated Current:	0,25-5(30)A,0,25-5(32)A,0,25-5(40)A, 0,25-5(45)A,0,25-5(50)A
Impulse Constant:	1000 imp/kWh
Frequency:	50Hz/60Hz
Accuracy Class:	B
LCD Display:	LCD 5+2 = 99999.99kWh

Content	Parameters
Working Temperature:	-25～55℃
Storage Temperature:	-30~70℃
Power Consumption:	<10VA <1W
Average Humidity:	≤75% (Non Condensing)
Maximum Humidity:	≤95%
Start Current:	0.004Ib
LED flash:	Impulse indication, pulse width = 80 ms
Software Version/CRC	V101 /CB15

PV Control Unit TPV-5KA-1xxA-GS - Component Datasheet

Surge Protection Device (SPB) - 1P, T2 Imax 40KA, 275/225V (Uc),1,5V (Up)



Specifications and Features

- Prewired modular and complete unit, comprising a base part and Plug-in protection module
- Easy installation and maintenance
- High Energy Varistor, response time less than 25 nanoseconds