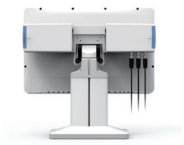
POC-IPSM90

270Wh Intelligent Power System with 3 x 90Wh Lithium-Ion Battery Packs



Features

- Easy installation on most panel PCs with VESA mounting design
- 6~12 hours runtime with lithium-ion batteries of 270Wh capacity (depends on system power consumption)
- 24/7 non-stop mobile power with 3 hot-swappable batteries
- Effective infection control with system IP54 rating
- Real-time battery management & monitoring with software DeviceOn
- Light weight of less than 3.5 kg while two batteries inserted
- Various power output of 12V/17V/19V/24V to support wide variety of panel PC power supply specification

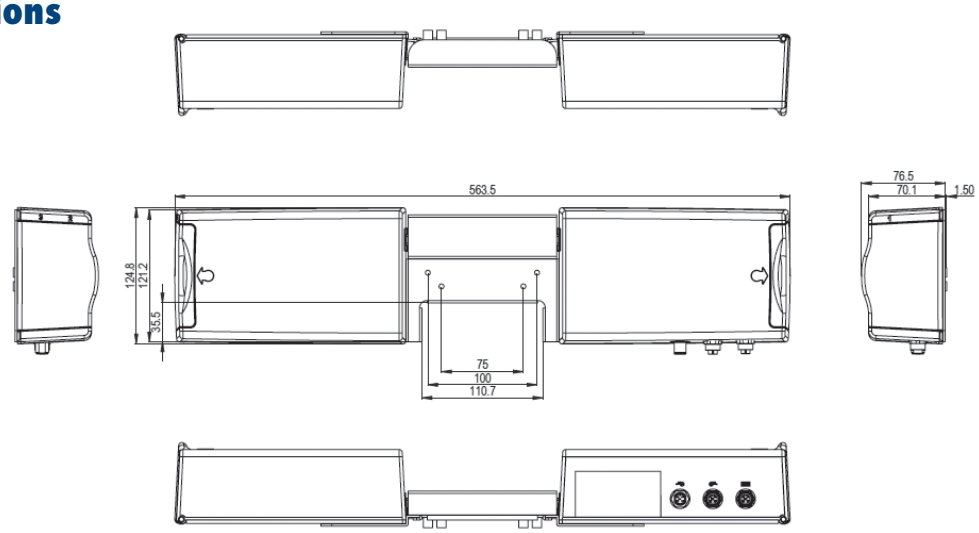
Specifications

Intelligent Power System	Battery Pack Type	1~3 Hot Swappable 3S3P/9 cells Lithium-ion Battery
	Battery Pack Capacity	90Wh each, Total 270Wh 2-3 Hot Swappable Batteries support 6~12 hours operation time (depend on real power consumption of system)
	Battery Life Time	300 cycle time* ≧ 70%
	Charge Time	**Single battery Pack** 0 ~ 80%: ~90 mins @ (5A Charge) 0 ~100%: ~ 150 mins **Three battery Packs** 0 ~ 80%: ~270 mins @ (5A Charge, share with three battery pack) 0 ~ 100%: ~ 330 mins
	Normal Voltage	10.8V (3.6V/cell)
	Normal Capacity	8400mAh (2800mAh/cell)
	Cut off Voltage of Discharge	9V
	Max Voltage of Charge	12.3V (4.1V/cell)
	Max Current of Discharge	10.05A
	Max Current of Charge	5.025A
	Battery LED Indicator	Battery Indicator status button Five status of battery capacity Five green light: capacity: 80%-100% Four green light: capacity: 60%-80% Three green light: capacity: 40-60% Two green light: capacity: 20-60% One green light: capacity: 0-20%
	Taper Current	0.45A
	Pre-Charge Current	1A
DC out	DC-out Voltage	12V, 17V, 19V, 24V
	DC-out Power	90W maximal
IP Rating		IP54
I/O Ports	Communication Ports (IP54)	RS-232: COM signal (M12 8pin female)
	DC-out (IP54)	1 x DC-out (M12 5pin female)
	DC-in (IP54)	1 x DC-in (M12 5pin male)
Environmental	Operating Temperature	0 ~ 35 °C
	Storage Temperature	-10 ~ 50 °C
	Battery Charge	10 ~ 35 °C
	Battery Discharge	0 ~ 35 °C
Certification	Certification	Power System: IEC60601-1-2 4th edition, IEC60601-1 Compliance Charging Station: IEC62368 Battery Back: UN38.3, UL2054, IEC62133
Warranty	Warranty	Electronic and Mechanical Parts: 2 year Battery Pack: Capacity 70%, 300 cycles or 1 year (Depends on which term come first.)
Weight	Weight	4 kg (with three Battery Packs)
Dimension	Dimension (W x D x H)	563.8 x 125 x 76.5 mm
Power Adapter	Power Input Voltage	100 ~ 240V AC
	Power Output	19V/7.89A, 150W
Battery Management	DeviceOn	Battery capacity indicator Alerts (battery capacity,temperature,warning) Battery life cycle statistics Report & log file Client App Installation & Server App Installation (optional)

* cycle time : one 100% change and one 100% discharge with below condition
1. Battery is working in the specification temperature
2. To keep battery in good condition , it must be charged once in three months when stored at room temperature (20 ~ 30 °C)

Dimensions

Unit: mm

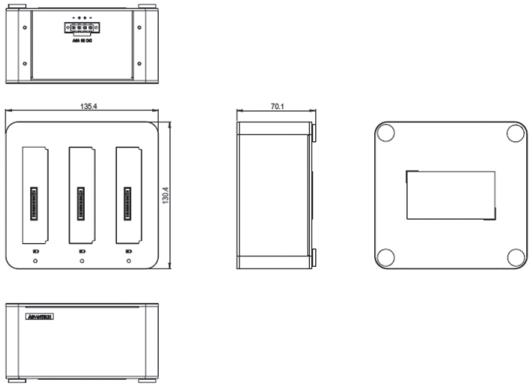


Charging Station Specifications

	Multi-Battery Charging Station
Number of Bays	3
Power input voltage	100~240V AC, 19V, 150W Power Adaptor
Charger time	Three battery Packs 0~80%: ~150 mins 0~100%: ~ 210 mins
I/O Ports	1 x DC-in (Terminal Block 4P)
Battery LED Indicator	3 x LEDs Green light : Fully charge battery pack in charger Red light : Battery pack is charging
Operating Temperature	0 ~ 35 °C (10 ~ 35 °C: Battery Charging)
Storage Temperature	-10 ~ 50 °C
Weight	< 1 KG
Dimension	135.4 x 130.4 x 70.1 mm
Certification	CE/FCC/IEC62368

Dimensions

Unit: mm



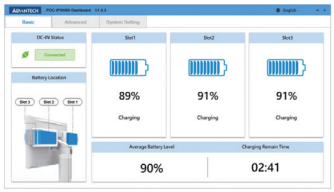
Ordering Information

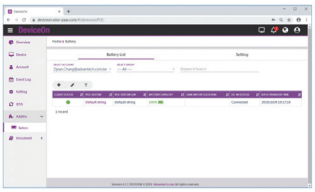
Part Number	Description
POC-IPSM90PS2	POC- Power System w/ 2 batteries, VESA, cables
POC-IPSM90PS3	POC- Power System w/ 3 batteries, VESA, cables
POC-IPSM90B2	Battery Pack (2 pcs) of POC - Power System
POC-IPSM90CS3	Charging station (3 slots) of POC - Power System
POC-IPSM90PSA	Adapter (optional) of POC - Power System

Accessories

Part Number	Description
1702002600	Power Cable (USA) 1.8 M
1702002605	Power Cable (Europe) 1.8 M
1700018704	Power Cord (UK) 1.8 M

Battery Management Software: DeviceOn





Client App

Installation package includes:
Deviceon-app-M90client,
Deviceon-app-M90edgeX API,
Deviceon-app-M90agent

Server App

Installation package includes:
Deviceon-app-M90service

For Battery Management Software, contact Advantech Sales team.